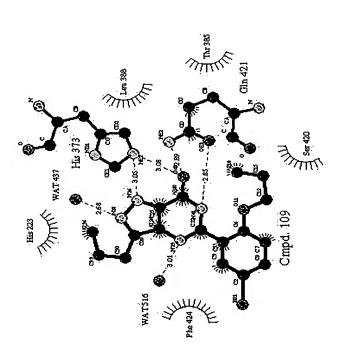


Figure 3



нь зэ Non-iigand residues involved in hydrophobic Этт сописц(s) O Ligand bond
O Mon-ligand bond
O Hydrogen bond and its length Key

Corresponding a toms involved in hydrophobic contact(s)

```
HEADER
            ----
                                      XX-XXX-XX xxxx
COMPND
REMARK 3
REMARK
REMARK
REMARK
           3 REFINEMENT.
           3 PROGRAM : REFMAC 5.0
3 AUTHORS : MURSHUDOV, V
                             : MURSHUDOV, VAGIN, DODSON
REMARK ·3
REMARK 3
                REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK
           3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.10
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 20.00
REMARK 3 DATA CUTOFF (SIGMA(F)): NONE
REMARK 3 COMPLETENESS FOR RANGE (%): 97.71
REMARK 3 NUMBER OF REFLECTIONS
                                                             28188
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD
                                                       : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET) : 0.21503
REMARK 3 R VALUE
                               (WORKING SET) : 0.21334
REMARK 3 FREE R VALUE
                                                     : 0.23537
REMARK 3 FREE R VALUE TEST SET SIZE (%): 7.7
REMARK 3 FREE R VALUE TEST SET COUNT : 2359
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.

REMARK 3 TOTAL NUMBER OF BINS USED : 20

REMARK 3 BIN RESOLUTION RANGE HIGH : 2.100

REMARK 3 BIN RESOLUTION RANGE LOW : 2.154

REMARK 3 REFLECTION IN BIN (WORKING SET) : 1979

REMARK 3 BIN R VALUE (WORKING SET) : 0.242

REMARK 3 BIN FREE R VALUE SET COUNT : 194

REMARK 3 BIN FREE R VALUE : 0.285

REMARK 3
                                            , ···
REMARK
REMARK
           3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK
           3 ALL ATOMS
                                 : 2724
REMARK
           3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): 28.472
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): 0.89
REMARK 3 B22 (A**2): 0.89
REMARK 3 B22 (A**2): 0.89
REMARK 3 B33 (A**2): -1.79
REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): 0.00
REMARK 3 B23 (A**2): 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE
                                                                  (A): 0.184
REMARK 3 ESU BASED ON FREE R VALUE
                                                                  (A): 0.159
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
                                                                 (A): 0.150
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2): 5.493
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.943
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE: 0.937
```

```
REMARK
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT
                                                 RMS WEIGHT
REMARK
      3 BOND LENGTHS REFINED ATOMS (A): 2684; 0.017; 0.021
      3 BOND LENGTHS OTHERS
                                      (A): 2427; 0.001; 0.020
        3 BOND ANGLES REFINED ATOMS (DEGREES): 3643 ; 1.792 ; 1.940
REMARK
        3 BOND ANGLES OTHERS (DEGREES): 5651; 0.916; 3.000
REMARK
        3 TORSION ANGLES, PERIOD 1 (DEGREES): 323 ; 4.382 ; 3.000
REMARK
           TORSION ANGLES, PERIOD 3 (DEGREES): 488 ;16.960 ;15.000
REMARK
REMARK
        3 CHIRAL-CENTER RESTRAINTS
        3 CHIRAL-CENTER RESTRAINTS (A**3): 419; 0.116; 0.200
3 GENERAL PLANES REFINED ATOMS (A): 2919; 0.007; 0.020
REMARK
REMARK
        3 GENERAL PLANES OTHERS
                                      (A): 552; 0.004; 0.020
        3 NON-BONDED CONTACTS REFINED ATOMS (A): 807; 0.275; 0.300
REMARK
REMARK
        3 NON-BONDED CONTACTS OTHERS
                                     (A): 2526; 0.241; 0.300
REMARK 3 NON-BONDED TORSION OTHERS
                                       (A):
                                            4 ; 0.047 ; 0.500
REMARK 3 H-BOND (X...Y) REFINED ATOMS (A):
                                            138 ; 0.227 ; 0.500
REMARK 3 H-BOND (X...Y) OTHERS
                                            5 ; 0.261 ; 0.500
                                      (A):
REMARK 3 SYMMETRY VDW REFINED ATOMS
                                      (A):
                                              4 ; 0.186 ; 0.300
REMARK 3 SYMMETRY VDW OTHERS
                                      (A):
                                            30 ; 0.234 ; 0.300
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A):
                                              7; 0.102; 0.500
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS COUNT RMS
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 1610 ; 0.778 ; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 2614 ; 1.468 ; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 1074 ; 2.298 ; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 1022 ; 3.649 ; 4.500
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK
        3 NUMBER OF NCS GROUPS : NULL
REMARK
        3
REMARK
        3
REMARK
        3 TLS DETAILS
REMARK
          NUMBER OF TLS GROUPS : 6
        3
REMARK
        3
REMARK
        3
          TLS GROUP :
                         1
REMARK
          NUMBER OF COMPONENTS GROUP: 1
            COMPONENTS C SSSEQI TO C SSSEQI RESIDUE RANGE: A 148 A 270
REMARK
REMARK
        3
REMARK
        3
            ORIGIN FOR THE GROUP (A): 16.0323 42.5286 49.2498
REMARK
        3
            T TENSOR
REMARK
            T11: 0.1358 T22:
        3
                                 0.1292
REMARK 3
             T33:
                    0.1299 T12:
                                 0.0050
             T13: -0.0244 T23:
REMARK 3
                                 0.0469
REMARK 3
           L TENSOR
            L11: 0.6964 L22:
REMARK 3
                                0.7134
REMARK 3
                    1.7615 L12: -0.2522
             L33:
REMARK 3
             L13: -0.0664 L23: -0.2093
REMARK 3
            S TENSOR
            S11: 0.0100 S12: 0.0651 S13:
REMARK 3
                                             0.0898
REMARK 3
             S21: -0.0635 S22: 0.0159 S23: 0.0636
REMARK 3
             S31: -0.1920 S32: -0.2744 S33: -0.0259
REMARK 3
REMARK 3
           TLS GROUP :
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI
                                       TO C SSSEOI
REMARK 3 RESIDUE RANGE : A 271
                                      A 337
REMARK 3 ORIGIN FOR THE GROUP (A): 24.6439 34.7675 62.6742
REMARK 3 T TENSOR
```

```
REMARK 3
              T11: 0.0738 T22: 0.0756
T33: 0.0945 T12: -0.0237
REMARK 3
REMARK 3
               T13:
                    -0.0234 T23: 0.0384
REMARK 3
            L TENSOR
       3
             L11: 1.5316 L22: 1.3291
L33: 1.7385 L12: -0.7017
REMARK
REMARK
        3
REMARK
         3
               L13:
                      0.2339 L23: -0.4901
REMARK
        3
            S TENSOR
REMARK
         3
              S11: 0.0038 S12: -0.0494 S13: 0.0740
REMARK
               S21: 0.0480 S22: 0.0211 S23: -0.0403
S31: -0.0998 S32: -0.0430 S33: -0.0249
         3
REMARK
         3
REMARK
         3
REMARK
           TLS GROUP :
         3
REMARK
           NUMBER OF COMPONENTS GROUP :
         3
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE: A 338 A 502
REMARK 3 ORIGIN FOR THE GROUP (A): 18.4504 22.7189 44.2384
REMARK 3 T TENSOR
              T11: 0.2074 T22: 0.1262
REMARK 3
              T33: 0.1587 T12: -0.0417
REMARK 3
REMARK 3
              T13: -0.0244 T23: 0.0145
REMARK 3 L TENSOR
             L11: 1.7414 L22: 1.4201
REMARK 3
REMARK 3 L33: 2.2230 L12: 0.1301 REMARK 3 L13: -0.0607 L23: 0.0203
REMARK 3 S TENSOR
REMARK 3
            S11: -0.0252 S12: 0.1294 S13: -0.2027
REMARK 3
              S21: -0.1646 S22: -0.0081 S23: 0.0554
REMARK 3
             S31: 0.2731 S32: -0.1371 S33: 0.0334
REMARK 3
REMARK 3
           TLS GROUP : 4
REMARK 3
           NUMBER OF COMPONENTS GROUP: 1
           COMPONENTS C SSSEQI TO C SSSEQI
RESIDUE RANGE: Z 999 Z 999
REMARK 3
REMARK 3
REMARK
           ORIGIN FOR THE GROUP (A): 25.6752 22.9182 43.5896
        3
REMARK
         3
             T TENSOR
            T11: 0.1603 T22: 0.112
T33: 0.1269 T12: -0.0012
T13: -0.0075 T23: 0.0129
REMARK
         3
               T11: 0.1603 T22: 0.1759
REMARK
        3
REMARK
        3
REMARK
            L TENSOR
        3
REMARK 3
            L11: 8.2769 L22: 51.8896
REMARK 3
              L33: 11.7300 L12: -10.6101
             L13: -4.2747 L23: 22.1771
REMARK 3
REMARK 3
             S TENSOR
             S11: 0.1836 S12: 0.1336 S13: -0.1531
S21: -0.1208 S22: 0.2127 S23: -0.4433
S31: 1.3771 S32: 0.1790 S33: -0.3963
REMARK 3
REMARK 3
REMARK 3
REMARK 3
REMARK 3 TLS GROUP :
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE: X 504 X 504
REMARK 3 ORIGIN FOR THE GROUP (A): 25.0120 29.8840 52.7823
REMARK 3 T TENSOR
REMARK 3
             T11: 0.2539 T22: 0.0830
REMARK 3
               T33: 0.4695 T12: -0.1325
REMARK 3
               T13: -0.2079 T23: 0.1731
```

```
REMARK 3 L TENSOR
 REMARK 3 L11: 0.0000 L22: 0.0000
                           L33: 0.0000 L12: 0.0000
 REMARK 3
                                          0.0000 L23: 0.0000
 REMARK 3
                              L13:
 REMARK 3
REMARK 3
REMARK 3
                        S TENSOR
                          S11: 0.0000 S12: 0.0000 S13: 0.0000
                               S21: 0.0000 S22: 0.0000 S23: 0.0000
 REMARK
                  3
                              S31: 0.0000 S32: 0.0000 S33: 0.0000
 REMARK
                  3
 REMARK 3 TLS GROUP: 6
REMARK 3 NUMBER OF COMPONENTS GROUP: 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE: Y 503 Y 503
REMARK 3 ORIGIN FOR THE GROUP (A): 22.8600 31.1800 49.8422
REMARK 3 T TENSOR
 REMARK 3 T11: 0.2048 T22: 0.2327
                             T33: 0.1923 T12: -0.0454
 REMARK 3
 REMARK 3
                             T13: -0.0244 T23: 0.0575
 REMARK 3 L TENSOR
 REMARK 3
                          L11: 0.0000 L22: 0.0000
REMARK 3 L33: 0.0000 L12: 0.0000 REMARK 3 L13: 0.0000 L23: 0.0000 REMARK 3 S TENSOR
 REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
 REMARK 3
                             S21: 0.0000 S22: 0.0000 S23: 0.0000
 REMARK 3
                             S31: 0.0000 S32: 0.0000 S33: 0.0000
 REMARK 3
 REMARK 3
 REMARK 3 BULK SOLVENT MODELLING.
 REMARK 3 METHOD USED : BABINET MODEL WITH MASK
 REMARK 3 PARAMETERS FOR MASK CALCULATION
 REMARK 3 VDW PROBE RADIUS : 1.40
 REMARK 3 ION PROBE RADIUS : 0.80
 REMARK 3 SHRINKAGE RADIUS : 0.80
 REMARK 3
 REMARK 3 OTHER REFINEMENT REMARKS:
 REMARK
                 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
 REMARK 3
 LINK
                                 VAL A 444
                                                                                          VAL A 479 gap
CRYST1 87.466 87.466 135.029 90.00 90.00 90.00 P 43 21 2

SCALE1 0.011433 0.000000 0.000000 0.000000

SCALE2 0.000000 0.011433 0.000000 0.000000

SCALE3 0.000000 0.000000 0.007406 0.00000

      SCALE2
      0.000000
      0.011433
      0.000000
      0.000000

      SCALE3
      0.000000
      0.000000
      0.007406
      0.00000

      ATOM
      1
      N
      PRO A 148
      12.524
      56.486
      42.915
      1.00 50.69

      ATOM
      2
      CA
      PRO A 148
      13.180
      56.901
      44.191
      1.00 50.33

      ATOM
      3
      CB
      PRO A 148
      12.813
      55.756
      45.123
      1.00 50.86

      ATOM
      4
      CG
      PRO A 148
      11.304
      55.464
      44.657
      1.00 51.22

      ATOM
      5
      CD
      PRO A 148
      11.249
      55.793
      43.173
      1.00 51.00

      ATOM
      6
      C
      PRO A 148
      14.682
      57.145
      43.964
      1.00 49.20

      ATOM
      7
      O
      PRO A 148
      15.582
      57.030
      44.818
      1.00 49.11

      ATOM
      8
      N
      THR A 149
      14.875
      57.461
      42.687
      1.00 47.11

      ATOM
      9
      CA
      THR A 149
      17.347
      58.043
      42.905
      1.00 45.61

      ATOM
      10
```

MOTA	15	N	TYR	А	150	15.294	55.842	41.319	1.00	38.52
MOTA	16	CA	TYR	Α	150	15.136	54.726	40.427	1.00	35.29
ATOM	17	CB	TYR	Α	150	13.810	54.029	40.640	1.00	35.11
ATOM	18	CG	TYR	Α	150	13.695	53.321	41.948		35.33
ATOM	19	CD1	TYR	Α	150	12.453	53.087	42.497		35.27
ATOM	20	CE1	TYR			12.312	52.472	43.683		37.07
ATOM	21	CZ	TYR			13.417	52.972	44.380		36.07
ATOM	22	ОН	TYR			13.417				
ATOM	23	CE2	TYR				51.451	45.578		38.09
						14.681	52.300	43.871		35.87
ATOM	24	CD2	TYR			14.810	52.924	42.650		34.24
ATOM	25	C	TYR			15.110	55.284	39.054		31.61
ATOM	26	0	TYR			14.270	56.069	38.713		30.04
ATOM	27	N	SER			16.071	54.864	38.283	1.00	28.42
ATOM	28	CA	SER			16.122	55.176	36.897	1.00	27.09
ATOM	29	CB	SER	Α	151	17.434	54.619	36.390	1.00	27.06
ATOM	30	OG	SER	Α	151	17.395	53.210	36.524	1.00	25.27
ATOM	31	C	SER	Α	151	14.967	54.444	36.189	1.00	24.84
ATOM	32	0	SER	Α	151	14.290	53.595	36.761		21.60
ATOM	33	N	THR			14.770	54.764	34.928		24.00
ATOM	34	CA	THR			13.776	54.047	34.150		23.98
ATOM	35	CB	THR			13.662	54.636	32.765		23.76
ATOM	36	OG1	THR			14.974	54.775	32.188		
ATOM	37	CG2	THR			13.102				21.23
ATOM	38	C	THR				56.061	32.857		24.51
ATOM						14.153	52.574	34.034		24.15
	39	0	THR			13.256	51.715	34.009		23.35
ATOM	40	N	ALA			15.458	52.273	33.976	1.00	24.16
ATOM	41	CA	ALA			15.880	50.871	33.903		24.96
ATOM	42	CB	ALA			17.387	50.741	33.638	1.00	25.26
MOTA	43	С	ALA	Α	153	15.472	50.176	35.212	1.00	25.47
ATOM	44	0	ALA	Α	153	14.887	49.078	35.188	1.00	24.28
ATOM	45	N	VAL	Α	154	15.687	50.810	36.360	1.00	26.41
MOTA	46	CA	VAL	Α	154	15.251	50.089	37.554	1.00	27.66
ATOM	47	CB	VAL	Α	154	15.999	50.359	38.896	1.00	
ATOM	48	CG1	VAL	Α	154	17.332	51.100	38.738		28.93
ATOM	49	CG2	VAL			15.038	50.837	40.024		29.03
ATOM	50	C	VAL			13.743	49.966	37.713		28.12
ATOM	51	ō	VAL			13.269	48.893	38.121		28.56
ATOM	52	N	LEU			12.995	51.006	37.374		28.89
ATOM	53	CA	LEU			11.548				
ATOM	54	CB	LEU				50.917	37.378		30.17
ATOM	55	CG	LEU			10.875	52.195	36.855		30.33
						10.889	53.449	37.759		32.39
MOTA	56		LEU			10.010	54.534	37.180		32.40
ATOM	57	CD2	LEU			10.472	53.167	39.196	1.00	32.71
ATOM	58	C	LEU			11.132	49.734	36.498		30.93
ATOM	59	0	LEU			10.302	48.931	36.909	1.00	30.41
ATOM	60	N	ASN			11.721	49.604	35.306	1.00	31.26
ATOM	61	CA	ASN	А	156	11.307	48.517	34.427	1.00	32.34
MOTA	62	CB	ASN	Α	156	11.985	48.567	33.058		32.86
ATOM	63	CG	ASN	Α	156	11.385	47.543	32.089	1.00	36.73
MOTA	64	OD1	ASN	Α	156	10.382	46.881	32.401		41.40
ATOM	65		ASN			11.982	47.411	30.922		39.03
ATOM	66	С	ASN			11.505	47.146	35.071		32.05
ATOM	67	0	ASN			10.717	46.244	34.839		31.86
ATOM	68	N	CYS			12.522	46.992	35.911		31.91
ATOM	69	CA	CYS			12.731	45.708	36.597		32.24
ATOM	70	CB	CYS			14.191	45.530	37.027		
ATOM	71	SG	CYS							31.84
11100	, 1	30	CID	м	T 🤉 /	15.344	45.440	35.664	1.00	34.69

MOTA	72	C	CYS	Α	157	11.832	45.517	37.819	1.00	31.82
MOTA	73	0			157	11.242	44.455	38.009	1.00	32.48
ATOM	74	N	LEU			11.691	46.552	38.625	1.00	31.06
ATOM	75	CA	LEU			10.932	46.452	39.846	1.00	31.07
MOTA	76	CB	LEU	Α	158	11.059	47.739	40.658	1.00	31.13
ATOM	77	CG	LEU	Α	158	12.444	48.041	41.201	1.00	32.29
ATOM	78		LEU			12.351	49.121	42.231		33.84
ATOM	79	CD2	LEU	Α	158	13.086	46.788	41.781	1.00	34.06
ATOM	80	С	LEU	Α	158	9.454	46.143	39.635	1.00	31.24
MOTA	81	0	LEU	Α	158	8.719	45.802	40.565	1.00	29.81
MOTA	82	N	LYS	Α	159	8.970	46.238	38.421		31.41
MOTA	83	CA	LYS	A	159	7.545	46.016	38.328	1.00	31.50
MOTA	84	CB	LYS			6.934	46.934	37.295		32.14
ATOM	85	CG	LYS	Α	159	7.222	46.557	35.904		33.11
MOTA	86	CD	LYS	Α	159	6.856	47.772	35.063		34.32
ATOM	87	CE	LYS	Α	159	6.576	47.425	33.649	1.00	34.36
MOTA	88	NZ	LYS	Α	159	5.816	48.503	32.886		31.80
ATOM	89	C	LYS	Α	159	7.268	44.542	38.071	1.00	30.04
MOTA	90	0	LYS	Α	159	6.139	44.146	37.914		29.50
MOTA	91	N	ASN	A	160	8.334	43.750	38.057		29.69
MOTA	92	CA	ASN	Α	160	8.248	42.318	37.905		29.42
ATOM	93	CB	ASN	Α	160	9.166	41.864	36.779		29.58
ATOM	94	CG	ASN	Α	160	8.744	42.403	35.418		31.61
ATOM	95	OD1	ASN	Α	160	9.583	42.846	34.628		34.78
ATOM	96	ND2	ASN	Α	160	7.453	42.353	35.134		28.45
ATOM	97	С	ASN	Α	160	8.713	41.683	39.198		29.06
MOTA	98	0	ASN	Α	160	8.936	40.492	39.265		28.40
ATOM	99	N	LEU	Α	161	8.859	42.501	40.229		28.93
ATOM	100	CA	LEU	Α	161	9.397	42.034	41.494		29.38
ATOM	101	CB	LEU	Α	161	9.625	43.210	42.402		29.08
MOTA	102	CG	LEU	A	161	10.389	42.897	43.672		31.27
ATOM	103	CD1	LEU	Α	161	11.861	42.631	43.379		31.86
ATOM	104	CD2	LEU	Α	161	10.239	44.083	44.593		31.51
MOTA	105	C	LEU	Α	161	8.507	41.013	42.184		28.95
ATOM	106	0	LEU	Α	161	8.995	40.243	42.982		27.46
MOTA	107	N	ASP	Α	162	7.203	41.017	41.889		28.26
MOTA	108	CA	ASP	Α	162	6.297	40.009	42.430		28.45
MOTA	109	CB	ASP	Α	162	4.849	40.509	42.505		28.51
MOTA	110	CG	ASP			4.681	41.658	43.447		29.91
ATOM	111		ASP			5.661	41.987	44.163		30.57
MOTA	112	OD2	ASP			3.613	42.309	43.515	1.00	30.72
ATOM	113	С	ASP	Α	162	6.287	38.717	41.606	1.00	
ATOM	114	0	ASP	Α	162	5.581	37.776	41.951	1.00	29.34
ATOM	115	N	LEU	Α	163	7.051	38.636	40.532		28.00
ATOM	116	CA	LEU	Α	163	6.937	37.472	39.662		28.36
ATOM	117	СВ	LEU	A	163	6.708	37.933	38.216		29.00
ATOM	118	CG	LEU	Α	163	5.592	38.955	38.016		29.76
ATOM	119		LEU			5.639	39.470	36.583		32.31
ATOM	120	CD2	LEU			4.245	38.314	38.320		31.94
MOTA	121	C	LEU			8.142	36.553	39.682		28.08
MOTA	122	0	LEU			9.264	36.986	39.925		27.05
ATOM	123	N	TRP	Α	164	7.893	35.283	39.409		27.30
ATOM	124	CA	TRP	Α	164	8.955	34.282	39.405		29.15
ATOM	125	CB	TRP	A	164	8.368	32.876	39.226		29.29
MOTA	126	CG	TRP	Α	164	9.223	31.713	39.761		29.65
MOTA	127		TRP			9.828	30.747	39.022		30.04
MOTA	128	NE1	TRP	Α	164	10.452	29.839	39.842		32.05

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ATOM	129	CE2	TRP			10.268	30.215	41,146	1.00	33.66
ATOM	130	CD2	TRP	Α	164	9.477	31.377	41.136	1.00	32.68
MOTA	131	CE3	TRP	Α	164	9.141	31.963	42.367	1.00	31.29
ATOM	132	CZ3	TRP	Α	164	9.583	31.368	43.543		31.32
ATOM	133	CH2	TRP	Α	164	10.347	30.205	43.519		31.46
MOTA	134	CZ2	TRP			10.715	29.620	42.337	1.00	
ATOM	135	C			164	9.984	34.542			28.63
ATOM	136	0			164			38.326		
ATOM						11.161	34.223	38.501	1.00	
	137	N	CYS			9.554	35.145	37.223	1.00	
ATOM	138	CA			165	10.461	35.390	36.119	1.00	
ATOM	139	CB	CYS			9.702	35.325	34.801	1.00	30.48
ATOM	140	SG	CYS			8.260	36.365	34.858	1.00	35.99
MOTA	141	C			165	11.219	36.710	36.246	1.00	28.86
MOTA	142	0	CYS	Α	165	11.889	37.112	35.317	1.00	28.19
ATOM	143	N	PHE	Α	166	11.128	37.377	37.396	1.00	28.22
ATOM	144	CA	PHE			11.942	38.561	37.669	1.00	
ATOM	145	СВ			166	11.783	38.942	39.144	1.00	
ATOM	146	CG	PHE			12.768	39.957	39.649		29.51
ATOM	147	CD1				12.708				
ATOM	148	CE1	PHE				41.303	39.404		30.56
						13.475	42.240	39.897	1.00	
ATOM	149	CZ			166	14.557	41.840	40.649	1.00	
ATOM	150	CE2	PHE			14.753	40.487	40.904	1.00	29.73
ATOM	151	CD2				13.856	39.561	40.419	1.00	29.26
MOTA	152	C	PHE	Α	166	13.390	38.194	37.398	1.00	27.89
MOTA	153	0	PHE	Α	166	13.799	37.062	37.668	1.00	27.05
MOTA	154	N	ASP	Α	167	14.166	39.152	36.907	1.00	27.35
ATOM	155	CA	ASP	Α	167	15.555	38.912	36.564	1.00	
ATOM	156	CB	ASP	Α	167	15.778	39.153	35.063		29.80
ATOM	157	CG	ASP			17.170	38.796	34.624		31.42
ATOM	158		ASP			18.103	38.884	35.453		32.96
ATOM	159		ASP			17.413	38.411			
ATOM	160	C	ASP					33.464	1.00	35.53
ATOM						16.467	39.777	37.403	1.00	
	161	0	ASP			16.682	40.970	37.141		26.25
ATOM	162	N	VAL			17.026	39.158	38.434	1.00	
ATOM	163	CA	VAL			17.854	39.897	39.348	1.00	25.71
MOTA	164	CB	VAL			18.211	39.051	40.567	1.00	25.35
MOTA	165		_VAL			19.152	37.944	40.180	1.00	25.70
MOTA	166	CG2	VAL	Α	168	18.793	39.932	41.652	1.00	25.79
MOTA	167	С	VAL	Α	168	19.126	40.400	38.687	1.00	25.17
MOTA	168	0	VAL	Α	168	19.671	41.383	39.118	1.00	
ATOM	169	N	PHE	Α	169	19.621	39.720	37.663	1.00	25.84
ATOM	170	CA	PHE			20.793	40.226	36.936		26.58
ATOM	171	СВ	PHE			21.303	39.145	35.977		27.19
ATOM	172	CG	PHE			21.871	37.911			_
ATOM	173		PHE					36.689		27.28
ATOM	174		PHE			23.018	38.016	37.464		28.48
						23.561	36.906	38.103		28.97
MOTA	175	CZ	PHE			22.939	35.682	38.009		29.08
ATOM	176		PHE			21.794	35.552	37.261		28.16
ATOM	177		PHE			21.260	36.662	36.594		29.73
MOTA	178	С	PHE			20.516	41.579	36.218	1.00	26.50
MOTA	179	0	PHE	Α	169	21.311	42.518	36.316	1.00	26.15
ATOM	180	N	SER	Α	170	19.395	41.700	35.509		26.92
ATOM	181	CA	SER	Α	170	19.052	42.977	34.866		27.24
MOTA	182	CB	SER	Α	170	17.778	42.880	34.038		27.33
ATOM	183	OG	SER			17.698	41.590	33.485		31.94
ATOM	184	С	SER			18.872	44.081	35.889		26.56
ATOM	185	Ō	SER			19.357	45.176	35.688		25.40
		-			0	22.337	10.1.0	55.000	1.00	23.40

ATOM	186	N	LEU	Α	171	18.210	43.788	37.006	1.00	26.72
ATOM	187	CA			171	18.053	44.804	38.041		26.87
MOTA	188	CB			171	17.239	44.262	39.199		26.89
ATOM	189	CG			171	16.829	45.204	40.336	1.00	28.33
MOTA	190	CD1	LEU	Α	171	17.772	45.133	41.464	1.00	28.86
MOTA	191	CD2	LEU	Α	171	16.603	46.662	39.916	1.00	27.68
ATOM	192	C			171	19.411	45.257	38.551	1.00	27.21
ATOM	193	0			171	19.687	46.469	38.713	1.00	26.11
ATOM	194	N			172	20.277	44.282	38.819	1.00	27.86
ATOM	195	CA			172	21.591	44.603	39.354	1.00	27.87
ATOM	196	CB			172	22.403	43.355	39.644	1.00	28.21
ATOM	197	CG			172	23.692	43.678	40.384		27.80
ATOM	198		ASN			23.669	44.255	41.491	1.00	30.36
ATOM	199	ND2			172	24.819	43.353	39.772		25.62
ATOM	200	C			172	22.377	45.478	38.395		27.64
ATOM	201	0			172	23.062	46.378	38.827	1.00	28.10
ATOM	202	N			173	22.321	45.170	37.106	1.00	
ATOM	203	CA			173	22.933	46.037	36.066	1.00	29.37
ATOM	204	CB			173	22.773	45.425	34.666	1.00	
ATOM	205	CG			173	23.438	46.267	33.569		35.90
ATOM ATOM	206	CD			173	22.975	45.932	32.138	1.00	
ATOM	207 208	OE1 NE2	GLN GLN			22.286	44.926	31.896	1.00	
ATOM	209	C	GLN			23.332	46.798	31.198		44.57
ATOM	210	0	GLN			22.279	47.428	36.104		28.41
ATOM	211	N			174	22.956	48.441	36.133		27.68
ATOM	212	CA			174	20.952	47.471	36.148		28.49
ATOM	213	CB			174	18.744	48.755	36.202		28.58
ATOM	214	C			174	20.558	48.503	36.125		29.21
ATOM	215	0	ALA			20.725	49.542 50.741	37.466 37.427	1.00	
ATOM	216	N	ALA			20.723	48.856	38.599		27.57 28.67
ATOM	217	CA	ALA			20.977	49.529	39.854	1.00	
ATOM	218	CB	ALA			20.383	48.720	41.021		29.35
ATOM	219	C	ALA			22.492	49.761	40.091	1.00	
ATOM	220	0	ALA			22.906	49.956	41.232		29.81
ATOM	221	N	ASP			23.329	49.648	39.059		30.63
ATOM	222	CA	ASP			24.765	49.924	39.235		32.09
MOTA	223	CB	ASP			24.970	51.410	39.584		32.71
ATOM	224	CG	ASP			26.444	51.874	39.480		36.29
ATOM	225	OD1	ASP			27.309	51.186	38.870	1.00	39.23
ATOM	226	OD2	ASP	Α	176	26.824	52.944	40.008	1.00	
ATOM	227	C	ASP	Α	176	25.385	49.030	40.305		32.10
MOTA	228	0	ASP	Α	176	26.163	49.475	41.128		32.05
ATOM	229	N	ASP	Α	177	24.995	47.765	40.291		32.40
ATOM	230	CA	ASP			25.557	46.765	41.162	1.00	32.57
ATOM	231	CB	ASP			27.094	46.811	41.022		33.86
ATOM	232	CG	ASP			27.761	45.459	41.244	1.00	37.30
MOTA	233		ASP			27.217	44.388	40.870	1.00	38.62
ATOM	234		ASP			28.871	45.386	41.812	1.00	42.64
ATOM	235	С	ASP			25.056	46.939	42.616	1.00	31.44
ATOM	236	0	ASP			25.767	46.616	43.567		31.53
ATOM	237	N	HIS			23.808	47.393	42.768		28.97
ATOM	238	CA	HIS			23.195	47.592	44.074		28.37
ATOM	239	CB	HIS			23.015	49.102	44.333		28.28
ATOM	240	CG ND1	HIS			24.300	49.811	44.540		29.60
ATOM ATOM	241		HIS			25.140	49.514	45.597		29.17
AION	242	CET	HIS	A	T \ R	26.211	50.295	45.530	1.00	31.37

ATOM	243	NE2	HIS A	178	26.109	51.060	44.453	1.00	28.96
MOTA	244	CD2	HIS A	178	24.929	50.764	43.806	1.00	27.64
MOTA	245	С	HIS A		21.851	46.861	44.193	1.00	27.29
MOTA	246	0	HIS A	178	20.891	47.366	44.798	1.00	27.47
ATOM	247	N	ALA A	179	21.772	45.684	43.586	1.00	26.15
ATOM	248	CA	ALA A	179	20.587	44.843	43.653	1.00	25.58
MOTA	249	CB	ALA A	179	20.853	43.536	42.955		25.00
ATOM	250	С	ALA A	179	20.036	44.561	45.060	1.00	24.71
ATOM	251	0	ALA A	179	18.844	44.676	45.296		24.09
ATOM	252	N	LEU A	180	20.901	44.192	45.983		24.32
MOTA	253	CA	LEU A	180	20.463	43.811	47.334		24.85
ATOM	254	CB	LEU A	180	21.666	43.304	48.136		24.64
MOTA	255	CG	LEU A	180	21.345	42.761	49.556		25.31
MOTA	256	CD1	LEU A	180	20.277	41.701	49.485		24.05
MOTA	257	CD2	LEU A	180	22.623	42.211	50.157		23.35
ATOM	258	С	LEU P	180	19.789	44.948	48.096		24.69
ATOM	259	0	LEU A	180	18.695	44.834	48.613		23.82
ATOM	260	N	ARG A	181	20.485	46.054	48.175		26.41
ATOM	261	CA	ARG A	181	19.976	47.214	48.860		28.21
ATOM	262	CB	ARG A	181	21.046	48.288	48.808		29.54
MOTA	263	CG	ARG A	181	20.541	49.682	48.921		36.08
MOTA	264	CD	ARG A	181	21.329	50.672	48.115		41.60
MOTA	265	NE	ARG A	181	20.971	52.017	48.527		50.14
MOTA	266	CZ	ARG A	181	21.515	53.137	48.023		56.96
MOTA	267	NH1	ARG A	181	22.439	53.072	47.052		59.36
MOTA	268	NH2	ARG A	181	21.121	54.326	48.481		58.36
MOTA	269	С	ARG A	181	18.672	47.695	48.237		27.40
MOTA	270	0	ARG A		17.757	48.083	48.947		26.86
ATOM	271	N	THR A	182	18.567	47.623	46.911		27.24
MOTA	272	CA	THR A	182	17.358	48.089	46.213		26.74
ATOM	273	CB	THR A	182	17.558	48.098	44.672		26.91
ATOM	274	OG1	THR A		18.658	48.927	44.356		26.05
ATOM	275	CG2	THR A		16.369	48.751	43.960		27.56
ATOM	276	С	THR A	182	16.201	47.203	46.539	1.00	
ATOM	277	0	THR A	182	15.138	47.660	46.951		25.70
ATOM	278	N	ILE A		16.401	45.904	46.365	1.00	
ATOM	279	CA	ILE A	183	15.343	44.959	46.666		26.09
ATOM	280	CB	ILE A	183	15.792	43.538	46.214		27.18
MOTA	281	CG1	ILE A	183	15.761	43.499	44.688		28.98
ATOM	282	CD1	ILE A	183	15.969	42.175	44.054		31.84
ATOM	283	CG2	ILE A	183	14.937	42.493	46.819	1.00	
MOTA	284	C	ILE A	183	14.906	44.983	48.126		25.78
MOTA	285	0	ILE A	183	13.704	44.955	48.420		24.75
ATOM	286	N	VAL A	184	15.855	45.035	49.055		24.98
ATOM	287	CA	VAL A	184	15.478	45.025	50.463		25.12
MOTA	288	CB	VAL A	184	16.680	44.867	51.394		24.60
MOTA	289	CG1	VAL A	184	16.252	44.990	52.824		25.61
MOTA	290	CG2	VAL A	184	17.366	43.490	51.161		25.65
MOTA	291	C	VAL A	184	14.686	46.253	50.846		25.65
ATOM	292	0	VAL A	184	13.638	46.169	51.474		24.69
ATOM	293	N	PHE A		15.178	47.414	50.465		26.98
MOTA	294	CA	PHE A	185	14.473	48.633	50.807		28.23
MOTA	295	CB	PHE A		15.263	49.816	50.278		29.37
ATOM	296	CG	PHE A	185	15.085	51.073	51.060		34.23
ATOM	297		PHE A		13.918	51.800	50.985		38.94
ATOM	298	CE1	PHE A		13.785	52.986	51.682		39.99
ATOM	299	CZ	PHE A	185	14.826	53.436	52.439		41.68

MOTA	300	CE2	PHE			16.006	52.712	52.510	1.00	41.15
ATOM	301	CD2				16.127	51.558	51.823		39.72
MOTA	302	С	PHE			13.081	48.612	50.188		27.47
MOTA	303	0	PHE			12.091	48.958	50.823		26.82
MOTA	304	N	GLU			13.013	48.222	48.928		27.24
ATOM	305	CA	GLU			11.738	48.220	48.237		27.91
ATOM	306	CB	GLU	A	186	11.935	47.855	46.765	1.00	27.48
ATOM	307	CG	GLU			10.654	47.731	45.987		28.29
MOTA	308	CD	GLU			9.887	49.029	45.889	1.00	28.56
MOTA	309		GLU			10.492	50.109	46.053	1.00	24.33
MOTA	310		GLU			8.671	48.932	45.662	1.00	31.27
MOTA	311	C	GLU			10.781	47.265	48.925	1.00	28.05
MOTA	312	0	GLU			9.614	47.601	49.159	1.00	27.46
MOTA	313	N	LEU			11.284	46.086	49.282	1.00	27.66
MOTA	314	CA	LEU	Α	187	10.433	45.088	49.919	1.00	27.76
MOTA	315	CB	LEU	Α	187	11.167	43.790	50.026	1.00	28.24
MOTA	316	CG	LEU	Α	187	10.812	42.697	49.031	1.00	29.69
MOTA	317	CD1	LEU	Α	187	10.224	43.141	47.771	1.00	29.84
MOTA	318	CD2	LEU	Α	187	11.962	41.703	48.782	1.00	29.82
ATOM	319	С	LEU	Α	187	9.920	45.497	51.285	1.00	27.51
MOTA	320	0	LEU	Α	187	8.745	45.281	51.589	1.00	26.71
MOTA	321	N	LEU	Α	188	10.807	46.036	52.114	1.00	26.73
MOTA	322	CA	LEU	Α	188	10.426	46.537	53.418	1.00	27.32
ATOM	323	CB	LEU	Α	188	11.646	46.963	54.210		26.81
MOTA	324	CG	LEU	Α	188	12.670	45.850	54.469	1.00	26.74
MOTA	325	CD1	LEU	Α	188	13.809	46.364	55.334	1.00	27.38
MOTA	326	CD2	LEU	Α	188	12.007	44.682	55.108	1.00	24.40
MOTA	327	C	LEU	Α	188	9.422	47.718	53.234	1.00	28.26
MOTA	328	0	LEU	Α	188	8.466	47.883	54.009	1.00	27.83
ATOM	329	N	THR	Α	189	9.621	48.511	52.191		28.83
MOTA	330	CA	THR	Α	189	8.644	49.558	51.870		29.72
MOTA	331	CB	THR	Α	189	9.198	50.459	50.793		29.84
MOTA	332	OG1	THR	Α	189	10.358	51.136	51.295		29.38
ATOM	333	CG2	THR			8.205	51.581	50.407		30.08
MOTA	334	C	THR	Α	189	7.289	48.950	51.431		30.15
ATOM	335	0	THR	Α	189	6.262	49.279	51.988		30.59
ATOM	336	N	ARG	Α	190	7.274	48.035	50.475		30.89
ATOM	337	CA	ARG	Α	190	5.991	47.536	49.988		31.88
ATOM	338	CB	ARG	Α	190	6.163	46.635	48.799		32.18
ATOM ·	339	CG	ARG	Α	190	6.636	47.319	47.570		35.14
ATOM	340	CD	ARG	Α	190	6.774	46.341	46.437	1.00	36.85
ATOM	341	NE	ARG	Α	190	7.259	46.939	45.212		39.11
MOTA	342	CZ	ARG	A	190		46.337	44.042		39.23
ATOM	343		ARG			6.637	45.133	43.956		40.26
ATOM	344		ARG			7.638	46.930	42.964		39.85
ATOM	345	С	ARG	Α	190	5.184	46.771	51.016		32.12
ATOM	346	0			190	3.948	46.685	50.902		31.60
ATOM	347	N			191	5.858	46.176	51.995		31.91
ATOM	348	CA			191	5.140	45.441	53.026		32.16
ATOM	349	СВ			191	5.911	44.192	53.420		32.33
ATOM	350	CG			191	5.883	43.114	52.379		33.14
ATOM	351		HIS			4.748	42.388	52.092		34.79
ATOM	352		HIS			5.018	41.498	51.155		34.11
ATOM	353		HIS			6.290	41.624	50.814		32.74
ATOM	354		HIS			6.853	42.630	51.562		33.66
ATOM	355	C			191	4.861	46.335	54.225		32.26
ATOM	356	0			191	4.353	45.884	55.241		32.48

ATOM	357	N	ASN	Α	192	5.195	47.617	54.113	1.00	32.62
ATOM	358	CA	ASN	Α	192	4.908	48.567	55.183		32.96
ATOM	359	CB			192	3.411	48.627	55.383		33.55
ATOM	360	CG			192	2.712	49.187	54.176		37.83
ATOM	361	OD1	ASN			3.051	50.287	53.711		42.97
ATOM	362		ASN			1.761	48.421	53.617		41.81
ATOM	363	С			192	5.605	48.233	56.512		32.40
ATOM	364	ō			192	5.103	48.544	57.587		31.85
ATOM	365	N			193	6.782	47.629	56.418		30.98
ATOM	366	CA			193	7.527	47.234	57.591		30.35
ATOM	367	CB			193	8.395	46.019	57.265		30.35
ATOM	368	CG			193	7.564	44.799	56.844		30.48
ATOM	369	CD1				8.447	43.618			
ATOM	370	CD2	LEU			6.615		56.493		31.91
ATOM	371	C			193		44.377	57.961		30.47
ATOM	372	0			193	8.354	48.380	58.164		30.04
ATOM	373	N				8.571	48.429	59.367		28.72
ATOM	374	CA			194	8.763	49.336	57.328		29.85
					194	9.529	50.460	57.830		29.93
ATOM	375	CB			194	10.061	51.330	56.658		30.62
ATOM	376	CG1			194	11.243	50.640	55.956		31.17
ATOM	377	CD1			194	11.625	51.251	54.612		32.48
ATOM	378	CG2			194	10.487	52.689	57.146		30.94
ATOM	379	C			194	8.645	51.257	58.830		29.72
ATOM	380	0			194	9.054	51.591	59.948		27.94
ATOM	381	N	SER			7.416	51.539	58.423	1.00	29.45
ATOM	382	CA			195	6.512	52.274	59.283	1.00	29.17
ATOM	383	CB			195	5.257	52.663	58.515		29.49
ATOM	384	OG	SER			5.617	53.629	57.565	1.00	32.19
ATOM	385	С	SER			6.129	51.464	60.481	1.00	27.98
ATOM	386	0	SER	A	195	6.217	51.925	61.599	1.00	26.74
ATOM	387	N	ARG			5.684	50.248	60.233	1.00	28.09
MOTA	388	CA	ARG			5.260	49.377	61.313	1.00	28.51
ATOM	389	CB	ARG			4.979	47.974	60.765	1.00	28.17
MOTA	390	CG	ARG	Α	196	4.788	46.897	61.845	1.00	30.35
ATOM	391	CD	ARG	Α	196	3.537	47.099	62.752	1.00	30.58
MOTA	392	NE	ARG	Α	196	3.493	46.112	63.817	1.00	32.07
ATOM	393	CZ	ARG	Α	196	4.164	46.219	64.957		34.21
MOTA	394	NH1	ARG	A	196	4.917	47.292	65.190	1.00	34.65
ATOM	395	NH2	ARG	Α	196	4.085	45.257	65.872		33.37
ATOM	396	С	ARG	Α	196	6.310	49.327	62.441		28.58
ATOM	397	0	ARG	Α	196	5.976	49.462	63.621		29.34
MOTA	398	N	PHE	Α	197	7.583	49.194	62.086		27.81
ATOM	399	CA	PHE	Α	197	8.599	48.988	63.097	1.00	28.09
ATOM	400	CB	PHE			9.460	47.763	62.754		28.50
ATOM	401	CG	PHE	Α	197	8.709	46.497	62.852		28.03
ATOM	402	CD1	PHE			8.280	46.059	64.097		27.84
ATOM	403		PHE			7.568	44.919	64.225		28.72
MOTA	404	CZ	PHE			7.240	44.188	63.092		30.42
ATOM	405	CE2	PHE			7.668	44.610	61.826		28.37
ATOM	406		PHE			8.393	45.766	61.719		26.33
ATOM	407	C	PHE			9.445	50.207	63.326		27.73
ATOM	408	ō	PHE			10.415	50.146	64.072		27.73
ATOM	409	N	LYS			9.021	51.326	62.740		27.48
ATOM	410	CA	LYS			9.735	52.581	62.889		27.40
ATOM	411	СВ	LYS			9.507	53.122	64.289		27.83
ATOM	412	CG	LYS			8.045	53.406	64.560		30.56
ATOM	413	CD	LYS			7.919	54.546	65.519		34.11
		-			+70	1.519	54.540	99.519	1.00	74.TT

MOTA	414	CE	LYS	Α	198	6.465	54.806	65.891	1.00	37.50
ATOM	415	NZ	LYS	Α	198	5.615	55.168	64.715	1.00	36.91
MOTA	416	C	LYS	Α	198	11.217	52.432	62.641	1.00	27.29
MOTA	417	0	LYS	Α	198	12.054	52.877	63.432	1.00	26.60
MOTA	418	N	ILE	Α	199	11.545	51.788	61.536	1.00	27.22
MOTA	419	CA	ILE	Α	199	12.943	51.604	61.150	1.00	27.25
MOTA	420	CB	ILE	Α	199	13.029	50.563	60.058	1.00	26.82
ATOM	421	CG1	ILE	Α	199	12.477	49.237	60.548		27.24
ATOM	422	CD1	ILE	Α	199	12.346	48.247	59.470		28.11
ATOM	423	CG2			199	14.478	50.379	59.599		27.57
MOTA	424	С			199	13.453	52.911	60.608		27.29
MOTA	425	0			199	12.967	53.359	59.586		27.74
ATOM	426	N			200	14.427	53.546	61.237		27.69
MOTA	427	CA			200	14.912	54.814	60.674		27.44
ATOM	428	CB	PRO			15.983	55.251	61.663		27.80
ATOM	429	CG	PRO			15.562	54.591	62.945		
ATOM	430	CD	PRO			15.140	53.199	62.473		27.11
ATOM	431	C	PRO			15.499				27.35
ATOM	432	0	PRO				54.536	59.330		27.59
ATOM	433	N	THR			16.330	53.635	59.164		27.25
ATOM						15.064	55.309	58.351		27.66
ATOM	434	CA	THR			15.478	55.088	56.990		27.67
	435	CB	THR			14.716	56.042	56.048		27.89
ATOM	436	OG1	THR			13.315	55.764	56.151		30.79
ATOM	437	CG2	THR			15.036	55.703	54.641		28.52
ATOM	438	C	THR			16.970	55.239	56.802		26.95
MOTA	439	0	THR			17.586	54.448	56.077	1.00	26.29
MOTA	440	N	VAL			17.561	56.237	57.447	1.00	26.04
ATOM	441	CA	VAL			19.011	56.438	57.325	1.00	26.21
MOTA	442	CB	VAL			19.445	57.835	57.849	1.00	26.44
ATOM	443	CG1	VAL			19.162	57.998	59.343	1.00	27.90
MOTA	444	CG2	VAL			20.887	58.119	57.545	1.00	26.50
ATOM	445	С	VAL			19.798	55.270	57.957	1.00	25.84
MOTA	446	0	VAL			20.861	54.903	57.453		25.46
MOTA	447	N	PHE	A	203	19.282	54.670	59.034		25.23
MOTA	448	CA	PHE	Α	203	19.940	53.486	59.599		25.21
MOTA	449	CB	PHE	Α	203	19.286	53.056	60.918		25.10
ATOM	450	CG	PHE	Α	203	19.566	53.958	62.107		25.64
ATOM	451	CD1	PHE	A	203	20.257	55.151	61.975		25.84
ATOM	452	CE1	PHE			20.506	55.962	63.090		26.76
ATOM	453	CZ	PHE	Α	203	20.063	55.591	64.332		25.86
ATOM	454	CE2	PHE			19.395	54.375	64.490		26.99
ATOM	455	CD2	PHE	Α	203	19.148	53.572	63.379		24.96
ATOM	456	С	PHE			19.852	52.314			25.15
ATOM	457	0	PHE			20.817	51.597	58.346		25.39
ATOM	458	N	LEU			18.696	52.138	57.972		25.66
ATOM	459	CA	LEU			18.518	51.070	57.007		25.90
ATOM	460	CB	LEU			17.044	50.951	56.584		
ATOM	461	CG	LEU			16.655	50.007	55.416		25.56
ATOM	462		LEU			16.963	48.549			25.84
ATOM	463		LEU			15.190		55.776		25.63
ATOM	464	C	LEU			19.426	50.101	55.034		24.09
ATOM	465	0	LEU				51.268	55.800		26.92
ATOM	466	N	MET			19.970	50.296	55.294		27.01
ATOM	467	CA	MET			19.609	52.503	55.319		27.86
ATOM	468	CB	MET			20.483	52.699	54.163		28.52
ATOM	469	CG	MET			20.325	54.092	53.512		29.52
ATOM	470	SD				18.919	54.471	53.019		32.80
111 011	4/0	SU	MET	А	205	18.847	56.162	52.172	1.00	44.56

MOTA	471	CE	MET	A	205		19.468	57.285	53.466	1.00	41.32
ATOM	472	C	MET	Α	205		21.936	52.473	54.576	1.00	27.36
ATOM	473	0			205		22.735	51.912	53.825		26.71
ATOM	474	N			206		22.306	52.940	55.756		26.27
ATOM	475	CA			206		23.678	52.725	56.220		25.78
MOTA	476	CB			206		23.888	53.411	57.569	1.00	26.03
ATOM	477	OG			206		25.185	53.143	58.083	1.00	27.10
ATOM	478	C			206		23.926	51.208	56.339		25.09
ATOM	479	0			206		24.945	50.654	55.885		24.07
ATOM	480	N			207		22.963	50.528	56.939		25.13
ATOM	481	CA			207		23.087	49.092	57.161	1.00	24.65
ATOM	482	CB			207		21.864	48.549	57.914		24.42
ATOM	483	CG			207		21.798	47.042	57.951		23.73
ATOM	484	CD1					22.584	46.333	58.833		23.73
ATOM	485	CE1	PHE				22.554	44.947	58.866		24.42
ATOM ATOM	486	CZ			207		21.713	44.258	58.022		24.41
ATOM	487	CE2	PHE				20.912	44.962	57.140		24.62
ATOM	488 489	CD2 C	PHE				20.985	46.337	57.083		25.19
ATOM	490	0			207 207		23.217	48.358	55.834		24.33
ATOM	491	N	LEU				24.058	47.489	55.684		23.55
ATOM	492	CA	LEU				22.364	48.700	54.885		24.48
ATOM	493	CB	LEU				22.336	47.999	53.600	1.00	
ATOM	494	CG	LEU				21.096 19.812	48.380	52.783		25.02
ATOM	495		LEU				18.565	47.771	53.347		25.57
ATOM	496	CD2	LEU				19.842	48.292 46.242	52.679 53.284		28.15
ATOM	497	C	LEU			-	23.636	48.196	52.819	1.00	
ATOM	498	o	LEU				24.110	47.304	52.819	1.00	
ATOM	499	N	ASP				24.223	49.366	52.102		25.86
ATOM	500	CA	ASP				25.500	49.673	52.415	1.00	
ATOM	501	CB	ASP				25.784	51.144	52.415	1.00	
ATOM	502	CG	ASP				27.085	51.568	52.031		31.26
ATOM	503	OD1					27.132	51.860	50.873		36.95
ATOM	504		ASP				28.116	51.614	52.790		36.15
MOTA	505	С	ASP				26.608	48.805	53.044		27.35
ATOM	506	0	ASP				27.437	48.226	52.325		25.79
MOTA	507	N	ALA	A	210		26.622	48.711	54.376		26.90
ATOM	508	CA	ALA	Α	210		27.593	47.841	55.055	1.00	
ATOM `	509	CB	ALA	Α	210		27.495	47.969	56.588		27.07
MOTA	510	С	ALA	Α	210		27.314	46.398	54.635	1.00	
MOTA	511	0	ALA	Α	210		28.221	45.618	54.413		25.78
ATOM	512	N	LEU	Α	211		26.050	46.060	54.478		25.05
ATOM	513	CA	LEU	Α	211		25.706	44.695	54.133	1.00	24.30
MOTA	514	CB	LEU	Α	211		24.193	44.519	54.186		24.53
MOTA	515	CG	LEU				23.686	43.096	54.060	1.00	24.36
ATOM	516		LEU				24.026	42.292	55.341		25.50
ATOM	517	CD2	LEU				22.208	43.051	53.811	1.00	25.84
ATOM	518	С	LEU				26.304	44.349	52.776	1.00	24.78
ATOM	519	0	LEU				26.944	43.312	52.606	1.00	22.33
ATOM	520	N	GLU				26.134	45.242	51.803		25.21
ATOM	521	CA	GLU				26.692	45.029	50.461		26.66
ATOM	522	CB	GLU				26.305	46.167	49.499		26.99
ATOM	523	CG	GLU				24.907	45.965	48.971		30.00
ATOM	524	CD	GLU				24.499	46.969	47.895		33.56
ATOM	525		GLU				25.273	47.917	47.625		36.12
ATOM	526 527		GLU				23.397	46.767	47.330		33.02
ATOM	527	C <sub>.</sub>	GLU	А	212		28.182	44.900	50.457	1.00	27.04

ATOM	528	0			212	28.733	44.015	49.803	1.00	27.39
ATOM	529	N			213	28.843	45.788	51.182	1.00	27.11
ATOM	530	CA			213	30.277	45.764	51.276		28.14
ATOM	531	CB			213	30.732	46.915	52.190		29.23
ATOM	532	OG1	THR			30.442	48.154	51.544		30.63
ATOM	533	CG2	THR			32.247	46.964	52.334		30.25
ATOM	534	C			213	30.763	44.410	51.785		28.11
ATOM	535	0			213	31.627	43.782	51.180		28.64
ATOM	536	N			214	30.177	43.930	52.875		27.59
ATOM	537	CA			214	30.584	42.651	53.420	1.00	
ATOM	538	C			214	30.320	41.524	52.451		26.58
ATOM	539	0	GLY			31.147	40.641	52.360		26.41
ATOM	540	N			215	29.203	41.565	51.704		25.59
ATOM	541	CA	TYR TYR			28.953	40.541	50.722		24.96
ATOM	542	CB CG				27.603	40.713	50.029		24.98
ATOM ATOM	543 544	CD1	TYR			26.481	39.927	50.676		24.39
ATOM		CE1	TYR			26.318	38.583	50.408		23.43
ATOM	545 546	CZ	TYR TYR			25.353	37.865	50.995		23.60
ATOM	547	OH	TYR			24.489 23.471	38.447	51.873		23.43
ATOM	548	CE2	TYR			24.599	37.667	52.405		20.71
ATOM	549	CD2	TYR			25.588	39.779	52.162		22.96
ATOM	550	CDZ			215	30.061	40.522	51.548		25.20
ATOM	551	0	TYR			30.366	40.553	49.689		25.25
ATOM	552	N	GLY			30.366	39.513	49.110		26.33
ATOM	553	CA	GLY			31.713	41.718 41.864	49.459 48.482		25.24 26.31
ATOM	554	C	GLY			33.126	41.522	48.953		
ATOM	555	Ö	GLY			34.042	41.476	48.131		27.38
ATOM	556	N	LYS			33.308	41.257	50.253		26.99 27.48
ATOM	557	CA	LYS			34.634	41.061	50.253		28.40
ATOM	558	CB	LYS			34.582	40.646	52.279		28.44
ATOM	559	CG	LYS			35.955	40.617	52.942		29.29
ATOM	560	CD	LYS			35.813	40.332	54.396		29.94
ATOM	561	CE	LYS			37.162	40.296	55.140		30.61
ATOM	562	NZ	LYS			36.854	40.156	56.598		29.20
ATOM	563	С	LYS			35.513	40.075	50.034		28.86
ATOM	564	0	LYS			36.676	40.382	49.774		29.89
ATOM	565	N	TYR			34.993	38.900	49.700		28.44
ATOM	566	CA	TYR			35.808	37.883	49.051		28.68
ATOM	567	CB	TYR			35.609	36.520	49.712		29.14
ATOM	568	CG	TYR	Α	218	36.166	36.494	51.118		29.13
ATOM	569	CD1	TYR	Α	218	37.538	36.390	51.360		31.65
MOTA	570	CE1	TYR	Α	218	38.041	36.422	52.664		31.58
MOTA	571	CZ	TYR	Α	218	37.156	36.576	53.700		31.05
MOTA	572	ОН	TYR	A	218	37.554	36.636	55.007		32.24
MOTA	573	CE2	TYR	Α	218	35.809	36.717	53.455		30.47
MOTA	574	CD2	TYR	Α	218	35.336	36.675	52.194		30.63
MOTA	575	С	TYR	Α	218	35.593	37.805	47.542		29.38
MOTA	576	0	TYR	Α	218	36.115	36.908	46.906		29.79
ATOM	577	N	LYS			34.839	38.741	46.975	1.00	29.08
ATOM	578	CA	LYS			34.673	38.822	45.539		29.91
ATOM	579	CB	LYS			35.982	39.324	44.910	1.00	31.32
ATOM	580	CG	LYS			36.464	40.655	45.484	1.00	35.36
ATOM	581	CD	LYS			35.625	41.827	45.003		41.45
ATOM	582	CE	LYS			36.106	43.149	45.673		45.14
MOTA	583	NZ	LYS			35.760	44.401	44.929		47.55
ATOM	584	С	LYŞ	Α	219	34.275	37.477	44.937	1.00	28.82

ATOM	585	0	LYS	Α	219	34.897	36.997	43.992	1.00	27.79
ATOM	586	N	ASN	Α	220	33.207	36.880	45.458	1.00	27.51
ATOM	587	CA	ASN	Α	220	32.830	35.532	45.045	1.00	26.69
MOTA	588	CB	ASN	Α	220	31.959	34.915	46.154		27.49
ATOM	589	CG			220	32.713	34.781	47.478		27.77
ATOM	590	OD1			220	33.870	34.347	47.523		30.07
ATOM	591	ND2			220	32.041	35.100	48.553		
ATOM	592	C			220	32.030				25.61
ATOM	593	0			220		35.556	43.745		26.27
ATOM	594					31.178	36.390	43.593		24.66
		N			221	32.272	34.649	42.811		25.94
ATOM	595	CA			221	31.417	34.583	41.612		26.27
ATOM	596	CB			221	32.053	33.452	40.766	1.00	26.24
ATOM	597	CG			221	33.431	33.288	41.308	1.00	26.68
MOTA	598	CD	PRO	Α	221	33.376	33.686	42.779	1.00	25.65
ATOM	599	C	PRO	Α	221	29.931	34.281	41.914	1.00	25.72
MOTA	600	0	PRO	Α	221	29.015	34.733	41.208		24.73
MOTA	601	N	TYR	Α	222	29.688	33.495	42.959		25.77
ATOM	602	CA	TYR	Α	222	28.326	33.085	43.311		25.08
ATOM	603	CB			222	28.219	31.544	43.319		25.64
ATOM	604	CG			222	26.828	30.997	43.600		
ATOM	605	CD1				26.323	30.948			25.34
ATOM	606	CE1						44.891	1.00	
ATOM	607	CZ			222	25.038	30.463	45.158		22.06
						24.246	30.013	44.107		23.70
ATOM	608	OH			222	22.974	29.505	44.339	1.00	21.82
ATOM	609	CE2			222	24.734	30.054	42.821	1.00	24.98
ATOM	610	CD2	TYR			26.008	30.557	42.565	1.00	25.57
ATOM	611	С			222	27.819	33.691	44.620	1.00	25.19
ATOM	612	0	TYR			26.760	34.349	44.614	1.00	24.68
ATOM	613	N	HIS	A	223	28.522	33.452	45.737		24.50
ATOM	614	CA	HIS	Α	223	28.085	33.958	47.033		24.84
MOTA	615	CB	HIS	Α	223	28.628	33.099	48.206		25.38
ATOM	616	CG	HIS	Α	223	28.112	31.691	48.205		23.28
ATOM	617	ND1	HIS			28.788	30.655	47.593		22.84
ATOM	618		HIS			28.080	29.541	47.705		24.33
ATOM	619		HIS			26.975	29.814			
ATOM	620		HIS			26.952		48.380		22.32
ATOM	621	C	HIS				31.158	48.672		24.21
MOTA	622	0				28.354	35.459	47.231		24.78
ATOM	623		HIS			29.177	35.882	48.043		24.54
		N	ASN			27.606	36.257	46.482	1.00	25.13
ATOM	624	CA	ASN			27.718	37.720	46.492		25.05
MOTA	625	CB	ASN			28.265	38.187	45.156		25.36
ATOM	626	CG	ASN			27.484	37.650	43.982	1.00	26.67
MOTA	627	OD1	ASN			26.265	37.792	43.935	1.00	26.48
MOTA	628	ND2	ASN			28.190	37.030	43.006		26.44
MOTA	629	С	ASN	Α	224	26.358	38.389	46.769		24.89
MOTA	630	0	ASN	Α	224	25.352	37.706	46.998		23.96
MOTA	631	N	GLN	Α	225	26.312	39.715	46.687		24.04
MOTA	632	CA	GLN			25.084	40.436	46.996		24.34
ATOM	633	CB	GLN			25.300	41.941	47.129		23.74
MOTA	634	CG	GLN			25.840	42.638	45.899		23.74
ATOM	635	CD	GLN			24.770	43.121	44.960		
ATOM	636		GLN			23.637	43.121			24.00
ATOM	637		GLN			25.126		45.350		24.84
ATOM	638	C	GLN				43.227	43.690		24.16
ATOM	639	0				23.960	40.118	46.008		23.83
ATOM			GLN			22.804	40.188	46.373		23.56
ATOM	640	N	ILE			24.299	39.718	44.791		23.31
AIOM	641	CA	ILE	А	226	23.281	39.314	43.832	1.00	24.41

MOTA	642	CB	ILE	Α	226	23.868	39.111	42.417	1.00	24.39
MOTA	643	CG1			226	24.722	40.326	41.994	1.00	25.97
ATOM	644	CD1	ILE	Α	226	25.524	40.104	40.657	1.00	27.53
ATOM	645	CG2	ILE	Α	226	22.732	38.844	41.433	1.00	25.46
ATOM	646	С	ILE	Α	226	22.535	38.036	44.287	1.00	23.48
ATOM	647	0	ILE	Α	226	21.311	37.954	44.169		23.63
ATOM	648	N	HIS	Α	227	23.264	37.047	44.802	_	23.48
MOTA	649	CA	HIS			22.634	35.821	45.280		23.18
MOTA	650	CB	HIS			23.711	34.817	45.746		23.13
MOTA	651	CG	HIS			23.175	33.645	46.502		22.83
ATOM	652		HIS			22.269	32.760	45.965		21.81
ATOM	653		HIS			21.996	31.825	46.865		23.03
ATOM	654		HIS			22.706	32.060	47.945		22.02
ATOM	655		HIS			23.443	33.196	47.754		22.36
ATOM	656	C	HIS			21.694	36.184			
ATOM	657	0	HIS			20.575		46.431		23.21
ATOM	658	N	ALA				35.692	46.510		23.79
ATOM	659					22.166	37.027	47.331		23.52
		CA	ALA			21.382	37.425	48.488		23.99
ATOM	660	CB	ALA			22.162	38.393	49.336		24.41
ATOM	661	C	ALA			20.077	38.083	48.007		24.31
ATOM	662	0	ALA			18.968	37.784	48.521		22.38
MOTA	663	N	ALA			20.233	38.990	47.048		22.66
ATOM	664	CA	ALA			19.098	39.695	46.437		23.54
ATOM	665	CB	ALA			19.616	40.765	45.435		23.38
ATOM	666	С	ALA			18.076	38.756	45.769		22.91
MOTA	667	0	ALA			16.875	38.927	45.931	1.00	24.26
ATOM	668	N	ASP			18.574	37.783	45.024	1.00	23.05
ATOM	669	CA	ASP	Α	230	17.793	36.747	44.365	1.00	23.12
ATOM	670	CB	ASP	Α	230	18.787	35.822	43.683	1.00	23.76
ATOM	671	CG	ASP	Α	230	18.139	34.674	42.926	1.00	25.45
ATOM	672	OD1	ASP	Α	230	16.955	34.747	42.505		26.57
ATOM	673	OD2	ASP	Α	230	18.797	33.659	42.655		25.88
MOTA	674	С	ASP	Α	230	17.013	35.921	45.412		23.72
ATOM	675	0	ASP			15.825	35.673	45.267		22.35
ATOM	676	N	VAL			17.692	35.534	46.484		23.47
ATOM	677	CA	VAL			17.037	34.728	47.518		24.21
ATOM	678	CB	VAL			18.026	34.129	48.537		24.13
ATOM	679		VAL			17.276	33.319	49.637		24.13
ATOM	680	CG2	VAL			18.974	33.228	47.834		
ATOM	681	C	VAL			15.925	35.508			24.85 24.04
ATOM	682	0	VAL			14.853		48.208		
ATOM	683	N	THR			16.176	34.965 36.787	48.457		22.65
ATOM	684	CA	THR					48.491		23.66
	685					15.182	37.651	49.110		23.11
ATOM		CB	THR			15.823	38.995	49.444		23.31
ATOM	686	OG1	THR			17.027	38.781	50.217		23.99
ATOM	687	CG2	THR			14.945	39.802	50.329		24.41
ATOM	688	C	THR			13.946	37.839	48.182		23.31
ATOM	689	0	THR			12.780	37.737	48.632		22.65
ATOM	690	N	GLN			14.195	38.112	46.898		23.32
ATOM	691	CA	GLN			13.100	38.307	45.956		23.23
ATOM	692	CB	GLN			13.597	38.776	44.586		23.03
ATOM	693	CG	GLN			12.473	39.041	43.607		24.22
ATOM	694	CD	GLN			12.087	37.860	42.802		25.11
MOTA	695	OE1				12.885	36.967	42.585	1.00	28.30
ATOM	696		GLN			10.860	37.861	42.316	1.00	27.14
ATOM	697	С	GLN	Α	233	12.325	37.006	45.810		22.95
ATOM	698	0	GLN	Α	233	11.095	36.996	45.692		21.67

MOTA	699	N	THR	Α	234	13.052	35.899	45.828	1.00	22.83
MOTA	700	CA	THR	Α	234	12.432	34.603	45.658	1.00	23.38
MOTA	701	CB			234	13.519	33.544	45.421	1.00	23.88
MOTA	702	OG1	THR	Α	234	14.199	33.791	44.158	1.00	24.26
ATOM	703	CG2	THR	Α	234	12.893	32.202	45.261	1.00	23.78
ATOM	704	С	THR	Α	234	11.499	34.279	46.845		24.31
ATOM	705	0	THR	Α	234	10.347	33.828	46.678		23.39
MOTA	706	N	VAL	Α	235	11.983	34.507	48.055		24.25
ATOM	707	CA	VAL	Α	235	11.155	34.327	49.222		25.40
ATOM	708	СВ	VAL	Α	235	11.904	34.734	50.478		25.17
ATOM	709	CG1	VAL	Α	235	10.927	34.923	51.582		27.95
MOTA	710	CG2	VAL	Α	235	12.919	33.675	50.789		25.72
ATOM	711	С	VAL	Α	235	9.885	35.184	49.119		25.16
ATOM	712	0			235	8.773	34.717	49.356		25.90
ATOM	713	N			236	10.060	36.434	48.762		25.43
ATOM	714	CA			236	8.938	37.353	48.602	1.00	
ATOM	715	CB			236	9.451	38.722	48.185	1.00	
ATOM	716	CG			236	8.365	39.715	47.946	1.00	
ATOM	717		HIS			7.833	40.497	48.944		31.08
ATOM	718		HIS			6.905	41.286	48.431	1.00	
ATOM	719		HIS			6.835	41.050	47.136		
ATOM	720		HIS			7.728	40.070		1.00	
ATOM	721	C			236	7.728		46.814		29.08
ATOM	722	0	HIS			6.749	36.801	47.576		25.45
ATOM	723	N			237		36.699	47.844	1.00	
ATOM	724	CA			237	8.437	36.388	46.420		25.77
ATOM	725	CB			237	7.584	35.855	45.362		25.98
						8.446	35.517	44.163		26.41
ATOM ATOM	726 727	SG C			237	7.485	35.055	42.726	1.00	
					237	6.781	34.620	45.763		26.70
ATOM	728	0			237	5.575	34.500	45.500		25.54
ATOM	729	N	PHE			7.465	33.667	46.366		27.29
ATOM	730	CA			238	6.803	32.483	46.890		27.86
ATOM	731	CB	PHE			7.827	31.612	47.567	1.00	
ATOM	732	CG	PHE			7.227	30.485	48.297		30.06
ATOM	733	CD1				6.765	30.667	49.561		32.89
ATOM	734	CE1	PHE			6.204	29.626	50.253		35.20
ATOM	735	CZ	PHE			6.073	28.401	49.676		32.48
ATOM	736	CE2	PHE			6.515	28.206	48.407		33.98
ATOM	737	CD2	PHE			7.094	29.254	47.712	1.00	31.40
ATOM	738	С	PHE			5.647	32.801	47.877	1.00	28.36
ATOM	739	0	PHE			4.544	32.208	47.796		27.43
ATOM	740	N	LEU			5.914	33.708	48.817	1.00	28.35
ATOM	741	CA	LEU			4.928	34.153	49.777		29.03
ATOM	742	CB	LEU			5.531	35.164	50.750		29.38
ATOM	743	CG	LEU			6.526	34.595	51.797		30.76
ATOM	744		LEU			7.162	35.687	52.593		29.24
ATOM	745		LEU			5.818	33.555	52.718	1.00	32.02
ATOM	746	C	LEU			3.705	34.767	49.100	1.00	30.23
ATOM	747	0	LEU			2.577	34.515	49.538		29.66
ATOM	748	N	LEU			3.926	35.592	48.075	1.00	31.23
ATOM	749	CA	LEU			2.822	36.236	47.348		32.84
ATOM	750	CB	LEU			3.331	37.349	46.415	1.00	32.68
ATOM	751	CG	LEU			3.117	38.814	46.829		34.15
ATOM	752		LEU			3.678	39.123	48.212	1.00	35.53
ATOM	753		LEU			3.730	39.739	45.816		35.73
MOTA	754	С	LEU			2.036	35.236	46.514	1.00	33.62
ATOM	755	0	LEU	Α	240	0.801	35.247	46.491	1.00	33.83

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MOTA	756	N			241	2.745	34.365	45.815	1.00	34.38
ATOM	757	CA	ARG	Α	241	2.080	33.456	44.891	1.00	34.99
ATOM	758	CB	ARG	Α	241	3.098	32.886	43.907		35.75
ATOM	759	CG	ARG	Α	241	3.686	33.928	42.950		39.97
ATOM	760	CD			241	2.669	34.564			
ATOM	761	NE						42.024		47.09
					241	1.901	35.643	42.680		53.02
ATOM	762	CZ			241	1.936	36.940	42.341	1.00	55.50
ATOM	763	NH1	ARG	A	241	2.715	37.374	41.349	1.00	54.42
MOTA	764	NH2	ARG	Α	241	1.178	37.808	43.009	1.00	57.64
ATOM	765	C	ARG	Α	241	1.311	32.325	45.572		34.31
ATOM	766	0			241	0.358	31.790	45.003		33.77
ATOM	767	N			242	1.721				
ATOM	768	CA			242		31.950	46.779		33.34
						1.040	30.872	47.486		32.54
ATOM	769	CB			242	2.016	30.068	48.345	1.00	32.66
ATOM	770	OG1			242	2.671	30.934	49.292	1.00	30.99
ATOM	771	CG2	THR	Α	242	3.138	29.477	47.490		33.23
MOTA	772	Ç	THR	Α	242	-0.040	31.414	48.388		32.38
MOTA	773	0	THR	Α	242	-0.894	30.659	48.844		32.62
ATOM	774	N			243	0.011	32.704			
ATOM	775	CA			243			48.691		31.97
						-0.927	33.277	49.639		32.52
ATOM	776	C			243	-0.382	33.219	51.069	1.00	32.59
ATOM	777	0			243	-0.901	33.865	51.987	1.00	33.09
MOTA	778	N			244	0.648	32.415	51.280	1.00	31.92
MOTA	779	CA	MET	Α	244	1.280	32.365	52.586		31.84
ATOM	780	CB	MET	Α	244	2.512	31.455	52.538		31.92
ATOM	781	CG	MET			3.220	31.320	53.867		32.81
ATOM	782	SD	MET			4.592				
ATOM	783	CE	MET				30.170	53.936		34.99
						4.143	28.895	52.960		35.49
ATOM	784	C	MET			1.640	33.781	53.088	1.00	31.14
ATOM	785	0	MET			1.673	34.002	54.283	1.00	30.58
ATOM	786	N	VAL	Α	245	1.898	34.744	52.206		30.72
MOTA	787	CA	VAL	Α	245	2.206	36.074	52.720		31.20
MOTA	788	CB	VAL			2.389	37.172	51.615		31.54
MOTA	789	CG1	VAL			1.044	37.571			
ATOM	790		VAL					50.922		31.12
ATOM	791	C	VAL			3.031	38.423	52.192		31.26
						1.122	36.509	53.709		31.64
ATOM	792	0	VAL			1.413	37.158	54.713		31.37
MOTA	793	N	HIS			-0.126	36.134	53.433	1.00	32.15
MOTA	794	CA	HIS			-1.251	36.548	54.285	1.00	32.35
MOTA	795	CB	HIS	Α	246	-2.588	36.466	53.500		32.09
MOTA	796	CG	HIS	Α	246	-2.589	37.340	52.286		33.04
ATOM	797	ND1				-2.476	36.841	51.002		34.53
MOTA	798		HIS			-2.421	37.845			
ATOM	799		HIS					50.147		34.13
						-2.468	38.977	50.830		34.85
ATOM	800		HIS			-2.568	38.688	52.169		33.40
ATOM	801	C	HIS			-1.344	35.800	55.608	1.00	32.32
ATOM	802	0	HIS	Α	246	-2.081	36.222	56.485	1.00	32.69
ATOM	803	N	CYS	Α	247	-0.608	34.709	55.783		32.44
MOTA	804	CA	CYS	Α	247	-0.693	33.986	57.054		32.44
MOTA	805	CB	CYS	Α	247	-0.583	32.488	56.797		32.89
ATOM	806	SG	CÝS	Δ	247	-1.746				
ATOM	807	C	CYS				31.913	55.534		34.05
ATOM						0.382	34.419	58.041		32.04
	808	0	CYS			0.447	33.925	59.157		32.01
MOTA	809	N	LEU			1.222	35.359	57.643	1.00	30.99
ATOM	810	CA	LEU			2.329	35.744	58.495		30.08
MOTA	811	CB	LEU			3.578	35.970	57.649		29.99
MOTA	812	CG	LEU	Α	248	4.064	34.839	56.749		30.92
										55.72

ATOM	813	CD1	LEU	Α	248	•	5.399	35.238	56.139	1.00	32.47
MOTA	814	CD2	LEU	A	248		4.209	33.528	57.498	1.00	30.59
MOTA	815	C	LEU	Α	248		2.085	37.005	59.290		28.96
MOTA	816	0	LEU	Α	248		1.452	37.949	58.823		27.76
MOTA	817	N	SER	Α	249		2.622	37.017	60.504		28.17
ATOM	818	CA	SER	Α	249		2.655	38.219	61.314		27.09
ATOM	819	CB	SER	Α	249		3.039	37.851	62.731		27.27
ATOM	820	OG			249		4.410	37.484	62.767		25.91
ATOM	821	С			249		3.736	39.138	60.730		27.09
ATOM	822	0			249		4.583	38.702	59.953		26.43
ATOM	823	N			250		3.713	40.405	61.112		27.35
ATOM	824	CA	GLU				4.682	41.376	60.629		27.73
ATOM	825	CB	GLU				4.292	42.777	61.073	1.00	
ATOM	826	CG	GLU				3.070	43.272	60.313		31.86
ATOM	827	CD	GLU				2.360	44.381	61.039		35.52
ATOM	828	OE1					1.997	44.200			
ATOM	829	OE2	GLU			•	2.174	45.429	62.228		37.54
ATOM	830	C	GLU				6.102		60.412		36.79
ATOM	831	0	GLU					41.032	61.054		27.78
ATOM	832	N	ILE				7.028	41.212	60.275		25.76
ATOM	833						6.263	40.520	62.274		27.74
ATOM	834	CA	ILE				7.583	40.059	62.734	1.00	
ATOM		CB	ILE				7.551	39.644	64.219	1.00	
	835	CG1	ILE				7.622	40.890	65.096		28.63
ATOM	836	CD1	ILE				9.011	41.592	65.046		28.11
ATOM	837	CG2	ILE				8.757	38.759	64.538		30.16
ATOM	838	C	ILE				8.095	38.904	61.897		28.34
ATOM	839	0	ILE				9.251	38.905	61.485	1.00	29.09
ATOM	840	N	GLU				7.237	37.927	61.622	1.00	28.26
MOTA	841	CA	GLU				7.623	36.813	60.797	1.00	28.52
MOTA	842	CB	GLU				6.457	35.828	60.637	1.00	29.67
ATOM	843	CG	GLU				6.230	34.890	61.822	1.00	30.93
ATOM	844	CD	GLU				4.872	34.199	61.772	1.00	32.89
ATOM	845	OE1					3.927	34.733	61.175	1.00	35.49
ATOM	846	OE2	GLU				4.755	33.090	62.313	1.00	36.14
MOTA	847	C	GLU				8.055	37.284	59.401	1.00	28.58
MOTA	848	0	GLU	Α	252		9.026	36.774	58.828		27.75
ATOM	849	N	LEU	Α	253		7.316	38.241	58.847		27.71
MOTA	850	CA	LEU	Α	253		7.585	38.692	57.496		28.12
MOTA	851	CB	LEU	Α	253		6.426	39.569	57.006		28.59
MOTA	852	CG	LEU	Α	253		6.338	40.064	55.563		30.30
MOTA	853	CD1	LEU	Α	253		6.669	38.973	54.558		31.90
MOTA	854	CD2	LEU	Α	253		4.907	40.614	55.305		30.18
ATOM	855	С	LEU	Α	253		8.910	39.452	57.514		26.83
ATOM	856	0	LEU				9.767	39.237	56.683		26.60
ATOM	857	N	LEU	Α	254		9.074	40.315	58.500		26.42
ATOM	858	CA	LEU				10.295	41.073	58.666		26.02
ATOM	859	CB	LEU				10.183	41.997	59.883		25.48
MOTA	860	CG	LEU				11.466	42.758	60.220		26.21
ATOM	861		LEU				11.952	43.613	59.043		26.07
ATOM	862		LEU				11.326	43.613	61.492		26.88
ATOM	863	C	LEU				11.478	40.113	58.816		26.15
ATOM	864	Ö	LEU				12.537	40.113	58.193		26.15
ATOM	865	N	ALA				11.295	39.086	59.629		25.30
ATOM	866	CA	ALA				12.361	38.119	59.898		25.30
ATOM	867	CB	ALA				11.921	37.120	60.972		24.84
ATOM	868	C	ALA				12.800	37.120	58.672		24.84
ATOM	869	Ô	ALA				14.004	37.182	58.455		
		-		••			_ 1.004	57.102	50.455	1.00	24.98

MOTA	870	N	ILE	Α	256	11.854	36.900	57.860	1.00	24.23
MOTA	871	CA	ILE	Α	256	12.246	36.076	56.730	1.00	25.00
MOTA	872	CB	ILE	Α	256	11.071	35.227	56.221	1.00	25.15
MOTA	873	CG1	ILE	Α	256	11.476	34.369	55.035	1.00	27.65
MOTA	874	CD1	ILE	A	256	12.251	33.236	55.338	1.00	31.98
MOTA	875	CG2	ILE	A	256	9.898	36.081	55.662	1.00	25.27
MOTA	876	С	ILE	Α	256	12.907	36.936	55.612	1.00	24.62
ATOM	877	0	ILE	Α	256	13.849	36.506	54.952	1.00	24.56
ATOM	878	N	ILE	A	257	12.427	38.146	55.417	1.00	23.59
ATOM	879	CA	ILE	A	257	13.050	39.042	54.440	1.00	23.56
ATOM	880	CB	ILE	Α	257	12.206	40.328	54.248		23.59
ATOM	881	CG1	ILE	Α	257	10.852	39.969	53.605		24.54
ATOM	882	CD1	ILE	A	257	9.862	41.108	53.494		25.49
ATOM	883	CG2	ILE	Α	257	12.988	41.373	53.407		25.28
MOTA	884	С	ILE	Α	257	14.471	39.371	54.907		23.11
MOTA	885	0	ILE			15.394	39.313	54.137		22.16
MOTA	886	N	PHE			14.648	39.718	56.177		22.99
ATOM	887	CA	PHE			15.969	40.035	56.694	1.00	
ATOM	888	CB	PHE			15.834	40.541	58.117	1.00	
ATOM	889	CG	PHE			17.132	40.968	58.762		23.02
ATOM	890	CD1				17.647	42.234	58.535	1.00	
MOTA	891	CE1	PHE			18.784	42.671	59.153	1.00	
ATOM	892	CZ	PHE			19.436	41.861	60.011	1.00	
ATOM	893	CE2	PHE			18.942	40.563	60.258		26.26
ATOM	894	CD2	PHE			17.790	40.140	59.643		25.02
ATOM	895	C	PHE			16.915	38.817	56.620		23.02
ATOM	896	Ō	PHE			18.084	38.934	56.225		21.46
ATOM	897	N	ALA			16.392	37.641	56.990		23.30
ATOM	898	CA	ALA			17.177	36.423	56.980		22.93
ATOM	899	CB	ALA			16.346	35.267	57.496		24.06
ATOM	900	C	ALA			17.674	36.137	55.571		23.74
ATOM	901	0	ALA			18.857	35.839	55.360		22.02
ATOM	902	N	ALA			16.767	36.265	54.595		
ATOM	903	CA	ALA			17.130	36.203			22.56
ATOM	904	CB	ALA			15.911	36.074	53.193 52.289		22.45
ATOM	905	C	ALA			18.244	37.030			22.84
ATOM	906	0	ALA			19.271	36.631	52.796 52.216	1.00	
ATOM	907	N	ALA			18.070				22.91
ATOM	908	CA	ALA			19.038	38.293	53.154		23.35
ATOM	909	CB	ALA				39.311	52.834		23.57
ATOM	910	C	ALA			18.543	40.653	53.334	1.00	
ATOM	911	0	ALA			20.443	39.039	53.406	1.00	
ATOM	912	N	ILE			21.465	39.280	52.720		23.49
ATOM	913	CA				20.487	38.588	54.659		23.03
ATOM		CB	ILE			21.744	38.433	55.360		23.37
ATOM	914 915	CG1	ILE			21.623	38.855	56.830		23.90
ATOM						20.882	37.776	57.641		24.33
ATOM	916	CD1				21.265	37.752	59.111		23.79
	917	CG2				20.969	40.220	56.972		23.43
ATOM ATOM	918	C	ILE			22.360	37.046	55.338		23.59
ATOM	919	O N	ILE			23.496	36.920	55.770		23.73
	920	N	HIS			21.669	36.051	54.764		22.88
ATOM ATOM	921	CA	HIS			22.021	34.637	54.933		23.14
ATOM	922 923	CB CG	HIS			20.939	33.706	54.362		23.36
ATOM			HIS			21.130	33.362	52.927		22.82
ATOM	924		HIS			20.795	34.233	51.908		24.09
ATOM	925 926		HIS			21.109	33.681	50.747		22.61
ATON	<b>720</b>	NEZ	HIS	М	403	21.617	32.479	50.983	1.00	20.94

ATOM	927	CD2	HIS	Α	263	21.660	32.268	52.337	1.00	18.65
ATOM	928	C	HIS	Α	263	23.411	34.184	54.463		23.05
ATOM	929	0	HIS	Α	263	23.892	33.176	54.964		22.10
ATOM	930	N	ASP	Α	264	24.088	34.936	53.584	1.00	22.76
MOTA	931	CA	ASP	Α	264	25.434	34.552	53.138		22.45
ATOM	932	CB	ASP	Α	264	25.428	34.156	51.677		22.58
ATOM	933	CG	ASP	Α	264	25.042	32.718	51.432		21.51
ATOM	934	OD1	ASP			25.417	31.825	52.226		17.97
ATOM	935	OD2	ASP			24.426	32.401	50.392		20.82
ATOM	936	С			264	26.455	35.686	53.306		22.72
ATOM	937	ō			264	27.460	35.740	52.601		22.80
ATOM	938	N			265	26.203	36.589	54.232		23.59
ATOM	939	CA			265	27.040	37.780	54.393		24.42
ATOM	940	CB			265	26.478	38.670	55.518		24.42
ATOM	941	CG			265	27.336	39.876	55.917		
ATOM	942	CD1	TYR			27.306	41.073			25.30
ATOM	943	CE1	TYR			28.031		55.166		25.63
ATOM	944	CZ			265		42.176	55.552		25.90
ATOM	945	OH				28.833	42.117	56.692		27.04
ATOM		CE2			265	29.579	43.198	57.071		23.11
	946		TYR			28.884	40.956	57.456		26.16
ATOM	947	CD2	TYR			28.133	39.841	57.046		27.92
ATOM	948	C			265	28.492	37.424	54.679		24.34
ATOM	949	0			265	28.769	36.621	55.587		23.65
ATOM	950	N	GLU			29.416	38.031	53.924		24.90
ATOM	951	CA	GLU			30.847	37.777	54.089		25.01
ATOM	952	CB	GLU			31.334	38.251	55.461	1.00	25.27
ATOM	953	CG	GLU			31.574	39.739	55.546	1.00	29.88
ATOM	954	CD	GLU			32.234	40.167	56.860	1.00	32.44
ATOM	955	OE1				32.338	39.359	57.786	1.00	32.33
ATOM	956	OE2	GLU			32.600	41.331	56.987	1.00	32.90
ATOM	957	C	GLU			31.226	36.314	53.898	1.00	24.81
ATOM	958	0	GLU	Α	266	32.059	35.756	54.626	1.00	23.00
ATOM	959	N	HIS	A	267	30.590	35.670	52.935	1.00	24.48
MOTA	960	CA	HIS	Α	267	30.958	34.325	52.565	1.00	23.79
MOTA	961	CB	HIS	Α	267	29.959	33.851	51.519	1.00	
MOTA	962	CG	HIS	Α	267	29.858	32.379	51.361	1.00	22.47
MOTA	963	ND1	HIS	Α	267	30.802	31.627	50.698	1.00	22.58
MOTA	964	CE1	HIS	Α	267	30.405	30.362	50.672	1.00	23.27
ATOM	965	NE2	HIS	Α	267	29.227	30.279	51.276	1.00	
ATOM	966	CD2	HIS	Α	267	28.859	31.524	51.704		24.39
MOTA	967	С	HIS	Α	267	32.391	34.308	51.964	1.00	
MOTA	968	0	HIS	Α	267	32.762	35.173	51.156	1.00	
ATOM	969	N	THR	Α	268	33.164	33.266	52.272	1.00	
ATOM	970	CA	THR	Α	268	34.532	33.190	51.781		24.85
ATOM	971	CB	THR			35.344	32.317	52.739		25.43
MOTA	972	OG1	THR			34.629	31.074	52.962		24.28
ATOM	973	CG2	THR			35.429	32.976	54.138		25.63
ATOM	974	С	THR			34.641	32.580	50.385		25.16
ATOM	975	0	THR			35.718	32.441	49.879		25.63
ATOM	976	N	GLY			33.541	32.158	49.785		25.20
ATOM	977	CA	GLY			33.610	31.425	48.537		25.18
ATOM	978	C	GLY			34.122	29.989	48.704		25.18
ATOM	979	0	GLY			34.588	29.372	47.755		25.22
ATOM	980	N	THR			34.044	29.431	49.909		25.18
ATOM	981	CA	THR			34.474	28.044	50.116		24.98
ATOM	982	СВ	THR			35.827	28.014	50.116		25.87
ATOM	983	OG1	THR			35.736	28.722			
	203		T 111/	-1	2,0	55.750	20.122	52.043	T.00	24.43

MOTA	984	CG2	THR A	270	36.931	28.768	49.961	1.00	24.71
MOTA	985	C	THR A		33.451	27.377	50.982	1.00	25.61
MOTA	986	0	THR A	270	32.712	28.072	51.663	1.00	25.76
ATOM	987	N	THR A		33.417	26.045	51.001	1.00	24.86
ATOM	988	CA	THR A		32.383	25.330	51.722	1.00	24.95
ATOM	989	CB	THR A		32.204	23.891	51.206	1.00	25.68
ATOM	990	OG1	THR A		33.426	23.176	51.360		23.96
ATOM	991	CG2	THR A		31.836	23.810	49.705		25.48
MOTA	992	C	THR A		32.692	25.176	53.198		24.66
ATOM	993	0	THR A		33.812	25.328	53.643		23.25
MOTA	994	N	ASN A		31.681	24.831	53.960		23.97
ATOM	995	CA	ASN A		31.943	24.521	55.347		23.86
ATOM	996	CB	ASN A		30.673	24.082	56.049		23.43
ATOM	997	CG	ASN A		29.780	25.239	56.419		24.32
ATOM	998	OD1	ASN A		30.211	26.417	56.425		23.34
ATOM	999	ND2	ASN A		28.524	24.925	56.738		19.10
ATOM	1000	С	ASN A		32.995	23.405	55.487		23.79
ATOM	1001	O	ASN A		33.843	23.477	56.389		22.95
ATOM ATOM	1002 1003	N CA	SER A		32.948	22.381	54.625		24.45
ATOM	1003	CB	SER A		33.904	21.266	54.755		26.61
ATOM	1004	OG	SER A		33.633	20.081	53.811		26.22
ATOM	1005	C	SER A		33.484	20.562	52.513		33.03
ATOM	1007	0	SER A		35.310 36.230	21.779	54.542		26.36
ATOM	1007	N	PHE A		35.484	21.320 22.717	55.201		26.23
ATOM	1000	CA	PHE A		36.821	23.304	53.608		26.47
ATOM	1010	CB	PHE A		36.840	24.262	53.396 52.201		26.35
ATOM	1011	CG	PHE A		38.164	24.202	51.973		26.81 26.74
ATOM	1012	CD1			39.131	24.333	51.192		27.54
ATOM	1013	CE1	PHE A		40.310	25.017	50.988		28.31
ATOM	1014	CZ	PHE A		40.532	26.261	51.549		26.76
ATOM	1015	CE2	PHE A		39.591	26.844	52.305		26.41
ATOM	1016	CD2	PHE A		38.416	26.198	52.521	1.00	
ATOM	1017	C	PHE A		37.257	24.029	54.675	1.00	
ATOM	1018	0	PHE A		38.388	23.922	55.080		25.54
MOTA	1019	N	HIS A	275	36.355	24.763	55.306		25.67
MOTA	1020	CA	HIS A	275	36.709	25.442	56.554		26.08
ATOM	1021	CB	HIS A	275	35.539	26.296	57.110		25.58
MOTA	1022	CG	HIS A	275	35.422	27.648	56.483		26.03
MOTA	1023	ND1	HIS A	275	35.937	28.784	57.072		27.34
MOTA	1024	CE1	HIS A	275	35.701	29.825	56.289	1.00	
MOTA	1025		HIS A		35.042	29.407	55.220	1.00	28.80
MOTA	1026	CD2	HIS A	275	34.833	28.052	55.331	1.00	27.81
ATOM	1027	С	HIS A		37.149	24.404	57.592		25.82
MOTA	1028	0	HIS A		38.165	24.593	58.267	1.00	25.49
MOTA	1029	N	ILE A	276	36.378	23.331	57.727	1.00	26.04
ATOM	1030	CA	ILE A		36.681	22.288	58.721	1.00	27.18
MOTA	1031	CB	ILE A		35.519	21.264	58.802	1.00	26.70
ATOM	1032	CG1	ILE A		34.236	21.948	59.275		25.70
ATOM	1033	CD1	ILE A		33.030	21.100	59.098		25.15
ATOM	1034	CG2	ILE A		35.846	20.086	59.764		28.02
ATOM	1035	C	ILE A		38.026	21.614	58.408		28.28
MOTA	1036	O	ILE A		38.894	21.504	59.273		28.60
MOTA	1037	N	GLN A		38.205	21.196	57.162		29.42
ATOM	1038	CA	GLN A		39.442	20.525	56.742		30.33
MOTA	1039	CB	GLN A		39.317	20.041	55.284		31.14
MOTA	1040	CG	GLN A	277	40.646	19.752	54.569	1.00	36.51

MOTA	1041	CD	GLN	Α	277	40.537	18.717	53.421	1.00	42.53
MOTA	1042	OE1	GLN	Α	277	40.136	19.051	52.294	1.00	45.55
MOTA	1043	NE2	GLN			40.929	17.463	53.711	1.00	44.71
MOTA	1044	С	GLN	Α	277	40.694	21.391	56.943	1.00	29.58
MOTA	1045	0	GLN			41.703	20.900	57.403	1.00	28.72
MOTA	1046	N	THR	Α	278	40.612	22.695	56.693	1.00	28.92
MOTA	1047	CA	THR	Α	278	41.795	23.544	56.813	1.00	28.05
MOTA	1048	CB	THR			41.746	24.684	55.772	1.00	28.51
MOTA	1049	OG1	THR			40.513	25.408	55.883	1.00	26.14
MOTA	1050	CG2	THR			41.710	24.129	54.382		28.90
MOTA	1051	С	THR			41.889	24.136	58.200	1.00	27.63
MOTA	1052	0	THR	Α	278	42.756	24.954	58.460	1.00	26.02
MOTA	1053	N	LYS			40.972	23.750	59.078	1.00	27.70
MOTA	1054	CA	LYS			40.971	24.266	60.442	1.00	28.78
ATOM	1055	CB	LYS			42.185	23.693	61.211	1.00	29.94
ATOM	1056	CG	LYS			42.117	22.197	61.410	1.00	32.41
MOTA	1057	CD	LYS			43.414	21.643	61.948		36.66
ATOM	1058	CE	LYS			43.304	20.139	62.190	1.00	40.13
ATOM	1059	NZ	LYS			43.096	19.400	60.908		42.20
MOTA	1060	C	LYS			41.015	25.802	60.439		28.38
ATOM	1061	0	LYS			41.843	26.406	61.111	1.00	27.04
ATOM	1062	N	SER			40.137	26.433	59.659		27.61
ATOM	1063	CA	SER			40.114	27.893	59.591		27.56
MOTA	1064	CB	SER			39.128	28.352	58.510		27.42
ATOM	1065	OG	SER			37.788	28.107	58.947		26.58
ATOM	1066	C	SER			39.696	28.547	60.906		27.76
ATOM	1067	0	SER			39.186	27.878	61.830		27.17
ATOM	1068	N	GLU			39.886	29.862	60.957		27.43
ATOM	1069	CA	GLU			39.498	30.677	62.103	1.00	
ATOM	1070	CB	GLU			39.682	32.151	61.741		29.19
ATOM ATOM	1071	CG	GLU			39.028	33.124	62.728		31.27
ATOM	1072 1073	CD OE1	GLU			39.670	33.083	64.114		32.30
ATOM	1073	OE1	GLU GLU			40.795	32.596	64.256		32.55
ATOM	1074	C	GLU			39.049	33.548	65.081		36.03
ATOM	1075	0	GLU			38.034	30.429	62.423	1.00	
ATOM	1070	N	CYS			37.626	30.240	63.570		28.37
ATOM	1077	CA	CYS			37.239 35.825	30.425	61.362		27.81
ATOM	1078	CB	CYS			35.825	30.219	61.461		27.91
ATOM	1080	SG	CYS			33.709	30.464	60.100	1.00	
ATOM	1081	C	CYS			35.422	31.331 28.824	60.218	1.00	39.62
ATOM	1082	0	CYS			34.522	28.716	62.025	1.00	25.83 24.14
ATOM	1083	N	ALA			36.078	27.767	62.888 61.557		
ATOM	1084	CA	ALA			35.834	26.406			24.17
ATOM	1085	CB	ALA			36.600	25.382	62.106		24.02
ATOM	1086	C	ALA			36.218	26.310	61.334 63.577		24.05
ATOM	1087	Ö	ALA			35.552	25.621	64.389		23.04 21.72
ATOM	1088	N	ILE			37.315	26.975	63.907		22.61
ATOM	1089	CA	ILE			37.838	26.971	65.251		23.85
ATOM	1090	CB	ILE			39.242	27.609	65.301		24.80
ATOM	1091	CG1	ILE			40.304	26.737	64.600		27.04
ATOM	1092	CD1	ILE			40.424	25.253	65.070		33.12
ATOM	1093	CG2	ILE			39.683	27.877	66.727		27.40
MOTA	1094	C	ILE			36.855	27.712	66.145		23.61
ATOM	1095	Ō	ILE			36.531	27.231	67.229		23.35
ATOM	1096	N	VAL			36.360	28.869	65.699		22.78
MOTA	1097	CA	VAL			35.403	29.635	66.514		22.77

MOTA	1098	CB	VAL			34.993	30.982	65.864	1.00	23.08
MOTA	1099		VAL			33.780	31.570	66.568	1.00	24.45
MOTA	1100	CG2	VAL			36.146	32.001	65.905	1.00	23.34
MOTA	1101	С	VAL			34.122	28.812	66.719	1.00	22.53
MOTA	1102	0	VAL			33.623	28.709	67.829		21.06
ATOM	1103	N	TYR			33.601	28.219	65.642		22.77
ATOM	1104	CA	TYR			32.299	27.540	65.708		23.09
MOTA	1105	CB	TYR			31.439	27.922	64.520		24.08
MOTA	1106	CG	TYR			31.091	29.377	64.603		22.97
ATOM	1107	CD1	TYR			30.259	29.833	65.598		23.16
ATOM	1108	CE1	TYR			29.934	31.161	65.704	1.00	22.01
MOTA	1109	CZ	TYR			30.465	32.076	64.808		23.58
ATOM	1110	OH	TYR			30.162	33.404	64.954		21.49
ATOM	1111	CE2	TYR			31.292	31.661	63.817		23.56
ATOM ATOM	1112	CD2 C	TYR			31.605	30.298	63.709		27.17
ATOM	1113 1114	0	TYR TYR			32.343	26.041	65.898		23.63
ATOM	1114	N	ASN			31.327	25.369	65.752		23.23
ATOM	1116	CA	ASN			33.500	25.522	66.266		22.70
ATOM	1117	CB	ASN			33.578	24.128	66.633		23.33
ATOM	1117	CG	ASN			32.811 33.364	23.910	67.947		22.74
ATOM	1119	OD1	ASN			34.583	24.765	69.098		25.05
ATOM	1120		ASN			32.469	24.834	69.289 69.893		23.37
ATOM	1121	C	ASN			33.038	25.385 23.215	65.536		22.58 23.81
ATOM	1122	0	ASN			32.338	22.246	65.847		23.81
ATOM	1123	N	ASP			33.316	23.568	64.271		23.85
ATOM	1124	CA	ASP			32.933	22.768	63.088		23.85
ATOM	1125	СВ	ASP			33.401	21.310	63.235		24.21
ATOM	1126	CG	ASP			34.919	21.156	63.249		23.57
ATOM	1127	OD1	ASP			35.653	22.129	62.904		24.90
ATOM	1128		ASP			35.463	20.075	63.615		22.57
ATOM	1129	C	ASP			31.419	22.749	62.815		25.06
ATOM	1130	0	ASP			30.968	22.071	61.907		24.35
MOTA	1131	N	ARG			30.633	23.454	63.636		25.53
ATOM	1132	CA	ARG	Α	289	29.191	23.440	63.487		26.65
MOTA	1133	CB	ARG	Α	289	28.571	23.286	64.873		27.35
MOTA	1134	CG	ARG	Α	289	28.927	21.909	65.491		33.21
MOTA	1135	CD	ARG	Α	289	28.306	21.600	66.880		36.44
MOTA	1136	NE	ARG	Α	289	28.671	20.274	67.372		38.40
ATOM	1137	CZ	ARG	Α	289	27.848	19.447	68.032		37.54
MOTA	1138	NH1	ARG			26.596	19.812	68.268	1.00	42.60
MOTA	1139	NH2	ARG			28.272	18.289	68.494	1.00	29.90
MOTA		С	ARG	Α	289	28.614	24.651	62.676	1.00	25.08
ATOM	1141	0	ARG			28.803	25.804	63.018		23.90
MOTA	1142	N	SER			27.971	24.353	61.564		24.69
MOTA	1143	CA	SER			27.362	25.372	60.719		25.02
ATOM	1144	CB	SER			26.025	25.786	61.314		24.48
ATOM	1145	OG	SER			25.113	24.730	61.178		25.90
ATOM	1146	C	SER			28.291	26.583	60.629		24.80
ATOM	1147	0	SER			27.901	27.687	60.939		25.11
ATOM	1148	N	VAL			29.515	26.344	60.207		24.15
ATOM ATOM	1149	CA	VAL			30.598	27.313	60.362		26.07
ATOM	1150 1151	CB CG1	VAL VAL			31.924	26.640	59.928		26.98
ATOM	1151		VAL			33.020 32.256	27.607	59.781		27.90
ATOM	1152	C	VAL			30.352	25.547 28.663	60.965 59.691		27.11
ATOM	1154	0	VAL			30.332	29.685			25.71
	-+J4	$\overline{}$	۸Vñ	n	<u>ـ ر ـ ـ</u>	20.223	29.005	60.366	1.00	25.95

ATOM	1155	N	LEU	Α	292	30.093	28.672	58.398	1.00	25.03
ATOM	1156	CA	LEU	Α	292	29.825	29.945	57.735	1.00	26.04
ATOM	1157	CB			292	29.950	29.810	56.230		25.17
ATOM	1158	CG			292					
						31.382	29.884	55.679		25.99
ATOM	1159	CD1			292	31.379	29.506	54.232	1.00	25.63
MOTA	1160	CD2			292	31.991	31.271	55.819	1.00	25.55
MOTA	1161	C	LEU	Α	292	28.467	30.519	58.114	1.00	25.59
ATOM	1162	0	LEU	Α	292	28.349	31.719	58.305		26.25
MOTA	1163	N			293	27.465	29.657	58.304		25.02
ATOM	1164	CA			293	26.123	30.137			
ATOM								58.638		24.53
	1165	CB			293	25.099	29.008	58.611		24.83
MOTA	1166	CG			293	24.848	28.429	57.204		26.46
ATOM	1167	CD			293	25.890	27.394	56.748	1.00	25.22
MOTA	1168	OE1	GLU	Α	293	26.722	26.982	57.581	1.00	23.13
MOTA	1169	OE2	GLU	Α	293	25.912	27.046	55.542		22.44
ATOM	1170	С			293	26.121	30.881	59.961		23.72
ATOM	1171	Ō			293	25.583	31.980			
ATOM	1172	N			294			60.048		23.20
						26.772	30.317	60.974		23.06
ATOM	1173	CA			294	27.005	31.030	62.235	1.00	22.73
MOTA	1174	CB	ASN	Α	294	27.749	30.147	63.259	1.00	22.50
ATOM	1175	CG			294	26.787	29.239	64.042	1.00	24.68
MOTA	1176	OD1	ASN	Α	294	25.838	29.723	64.626		22.47
MOTA	1177	ND2				27.016	27.919	64.016		24.08
ATOM	1178	С			294	27.714				
ATOM	1179	0			294		32.369	62.061		22.61
						27.328	33.355	62.674		24.02
ATOM	1180	N			295	28.745	32.416	61.227	1.00	22.90
MOTA	1181	CA	HIS	Α	295	29.415	33.643	60.928	1.00	22.56
ATOM	1182	CB	HIS	Α	295	30.633	33.399	60.059	1.00	23.13
ATOM	1183	CG	HIS	Α	295	31.297	34.657	59.617	1.00	
MOTA	1184	ND1	HIS			32.125	35.391	60.443		33.65
ATOM	1185		HIS			32.627	36.409	59.765		
ATOM	1186		HIS							33.93
						32.154	36.363	58.533		33.72
ATOM	1187		HIS			31.320	35.271	58.416		28.03
ATOM	1188	С	HIS			28.479	34.641	60.252	1.00	23.27
ATOM	1189	0	HIS	Α	295	28.460	35.827	60.608	1.00	23.54
ATOM	1190	N	HIS	Α	296	27.675	34.192	59.299	1.00	23.29
ATOM	1191	CA	HIS	Α	296	26.828	35.170	58.610		24.09
MOTA	1192	CB	HIS			25.940	34.551	57.535		23.78
ATOM	1193	CG	HIS			26.665	33.743			
MOTA	1194		HIS					56.523		25.05
						27.836	34.159	55.923	1.00	
ATOM	1195		HIS			28.236	33.225	55.075	1.00	
MOTA	1196		HIS			27.350	32.239	55.082	1.00	26.51
MOTA	1197	CD2	HIS	Α	296	26.378	32.526	56.001	1.00	25.09
ATOM	1198	С	HIS	Α	296	25.939	35.903	59.606	1.00	24.57
MOTA	1199	0	HIS	Α	296	25.812	37.143	59.572		24.04
ATOM	1200	N	ILE			25.356	35.130	60.525		23.95
ATOM	1201	CA	ILE			24.412				
ATOM							35.675	61.458		23.96
	1202	CB	ILE			23.762	34.544	62.258		24.70
MOTA	1203	CG1	ILE			23.050	33.562	61.326	1.00	25.82
MOTA	1204	CD1	ILE			22.716	32.244	61.977	1.00	28.16
ATOM	1205	CG2	ILE	Α	297	22.828	35.086	63.218		23.43
ATOM	1206	С	ILE	Α	297	25.118	36.597	62.410		24.26
ATOM	1207	0	ILE			24.731	37.738	62.591		23.37
ATOM	1208	N	SER			26.158	36.069	63.034		24.50
ATOM	1209	CA	SER			26.885	36.774			
ATOM	1210	CB						64.067		24.59
			SER			28.066	35.910	64.509		24.82
ATOM	1211	OG	SER	A	∠98	28.747	36.584	65.506	1.00	22.02

ATOM	1212	С	CED	7	298		27 464	20 102	62 616	1 00	00.00
							27.464	38.102	63.616		23.96
MOTA	1213	0			298		27.348	39.121	64.281		23.83
ATOM	1214	N	SER	Α	299		28.153	38.067	62.506	1.00	23.74
ATOM	1215	CA	SER	Α	299		28.793	39.256	62.025	1.00	25.90
ATOM	1216	CB	SER	Α	299		29.730	38.892	60.871	1.00	
MOTA	1217	OG			299		28.923	38.452	59.811		31.64
ATOM	1218	C			299						
							27.733	40.306	61.648	1.00	
ATOM	1219	0			299		27.949	41.498	61.843	1.00	
MOTA	1220	N	VAL				26.555	39.882	61.201	1.00	25.28
MOTA	1221	CA	VAL	Α	300		25.521	40.851	60.875	1.00	25.23
MOTA	1222	CB	VAL	Α	300		24.403	40.237	60.014	1.00	24.83
MOTA	1223	CG1	VAL	Α	300		23.172	41.070	60.050	1.00	25.69
MOTA	1224	CG2	VAL	Α	300		24.871	40.093	58.589		25.45
ATOM	1225	C			300		24.964	41.473	62.150		25.42
ATOM	1226	0	VAL				24.819				
ATOM	1227							42.690	62.231	1.00	
		N	PHE				24.654	40.663	63.158	1.00	
ATOM	1228	CA	PHE				24.184	41.238	64.421	1.00	26.45
MOTA	1229	CB	PHE				23.602	40.180	65.376	1.00	26.77
MOTA	1230	CG	PHE				22.187	39.825	65.061	1.00	27.13
MOTA	1231	CD1	PHE	Α	301		21.131	40.559	65.619	1.00	28.20
MOTA	1232	CE1	PHE	Α	301		19.823	40.274	65.312	1.00	28.26
MOTA	1233	CZ	PHE				19.517	39.243	64.443	1.00	
ATOM	1234	CE2	PHE				20.561	38.485	63.868	1.00	
MOTA	1235		PHE								
ATOM							21.897	38.800	64.181		28.75
	1236	C	PHE				25.276	42.077	65.076		26.47
MOTA	1237	0	PHE				24.981	43.088	65.721	1.00	26.56
ATOM	1238	N	ARG				26.538	41.730	64.844	1.00	26.42
ATOM	1239	CA	ARG	Α	302		27.614	42.552	65.376	1.00	26.55
MOTA	1240	CB	ARG	Α	302		28.986	41.917	65.166	1.00	26.72
MOTA	1241	CG	ARG	Α	302		30.127	42.749	65.727	1.00	
MOTA	1242	CD	ARG				31.516	42.209	65.298		29.65
ATOM	1243	NE	ARG				31.774	40.849	65.792		27.69
ATOM	1244	CZ	ARG				32.044				
ATOM	1245		ARG					40.544	67.057		31.00
							32.084	41.476	67.984		29.89
ATOM	1246		ARG				32.279	39.278	67.416		31.00
ATOM	1247	C	ARG				27.599	43.932	64.728	1.00	26.61
MOTA	1248	0	ARG	A	302		27.788	44.945	65.411	1.00	26.17
ATOM	1249	N	LEU	Α	303		27.380	43.997	63.426	1.00	27.42
ATOM	1250	CA	LEU	Α	303		27.248	45.305	62.762		28.60
MOTA	1251	CB	LEU				26.781	45.165	61.319		29.20
ATOM	1252	CG	LEU				27.752	44.910	60.187	1.00	32.21
ATOM	1253	CD1	LEU				26.953	44.673	58.927		
ATOM	1254		LEU							1.00	32.72
ATOM							28.685	46.129	60.004		31.69
	1255	C	LEU				26.180	46.174	63.385		28.74
MOTA	1256	0	LEU			-	26.311	47.356	63.436		27.28
MOTA	1257	N	MET				25.095	45.557	63.825	1.00	29.74
ATOM	1258	CA	MET	Α	304		23.940	46.303	64.262	1.00	30.71
MOTA	1259	CB	MET	Α	304		22.681	45.451	64.111	1.00	31.09
ATOM	1260	CG	MET	Α	304		22.242	45.334	62.662		30.97
MOTA	1261	SD	MET				20.617	44.646	62.454		31.09
ATOM	1262	CE	MET				20.787	43.027	63.297		33.19
ATOM	1263	C	MET								
							24.107	46.800	65.669		32.29
ATOM	1264	0	MET				23.203	47.427	66.216		31.63
ATOM	1265	N	GLN				25.275	46.533	66.250		33.75
ATOM	1266	CA	GLN				25.594	47.078	67.555	1.00	35.64
MOTA	1267	CB	GLN				26.604	46.205	68.285	1.00	36.17
ATOM	1268	CG	GLN	Α	305		26.034	44.850	68.710	1.00	38.77

MOTA	1269	$^{\rm CD}$	GLN	Α	305	26.762	44.295	69.906	1.00	41.31
ATOM	1270	OE1	GLN	Α	305	27.996	44.192	69.901	1.00	45.03
MOTA	1271	NE2	GLN	Α	305	26.016	43.961	70.941		41.89
ATOM	1272	C	GLN			26.129	48.512	67.415		36.24
ATOM	1273	0	GLN							
						26.153	49.253	68.389		35.74
ATOM	1274	N	ASP			26.618	48.881	66.232		37.02
MOTA	1275	CA	ASP			26.911	50.291	65.978	1.00	38.31
MOTA	1276	CB	ASP	Α	306	27.716	50.492	64.695	1.00	38.81
ATOM	1277	CG	ASP	Α	306	29.093	49.828	64.756		41.22
ATOM	1278	OD1	ASP	Α	306	29.819	50.043	65.744		46.02
ATOM	1279		ASP			29.539	49.070	63.869		45.38
ATOM	1280	C	ASP							
ATOM						25.536	50.942	65.867		38.36
	1281	0	ASP			24.672	50.491	65.097		37.88
ATOM	1282	N	ASP			25.318	51.970	66.663	1.00	38.69
MOTA	1283	CA	ASP			24.019	52.634	66.721	1.00	39.08
ATOM	1284	CB	ASP	Α	307	24.167	53.925	67.499	1.00	40.15
ATOM	1285	CG	ASP	Α	307	24.481	53.687	68.934	1.00	43.00
ATOM	1286	OD1	ASP	Α	307	23.794	52.824	69.532		45.74
ATOM	1287	OD2	ASP			25.385	54.325	69.531		48.46
ATOM	1288	C	ASP			23.421	53.005	65.382		
ATOM	1289	ō	ASP			22.244				37.50
ATOM	1290						52.808	65.135		37.61
		N	GLU			24.250	53.543	64.520		36.37
ATOM	1291	CA	GLU			23.797	54.051	63.254	1.00	36.08
MOTA	1292	CB	GLU			24.860	54.977	62.701	1.00	36.74
MOTA	1293	CG	GLU			26.116	54.265	62.215	1.00	39.70
MOTA	1294	CD	GLU	Α	308	27.194	54.082	63.274	1.00	43.85
ATOM	1295	OE1	GLU	Α	308	26.905	54.242	64.490		46.81
ATOM	1296	OE2	GLU	Α	308	28.352	53.776	62.880		47.12
ATOM	1297	С	GLU	А	308	23.462	52.972	62.229		35.25
ATOM	1298	0	GLU			23.200				
ATOM	1299	N	MET				53.283	61.073		34.93
						23.480	51.712	62.642		33.64
ATOM	1300	CA	MET			23.092	50.634	61.756	1.00	33.48
ATOM	1301	CB	MET			24.311	49.814	61.372	1.00	33.75
MOTA	1302	CG			309	24.986	50.460	60.219	1.00	37.45
ATOM	1303	SD	MET	Α	309	26.271	49.514	59.726	1.00	44.65
ATOM	1304	CE	MET	Α	309	27.062	50.738	58.746		42.08
ATOM	1305	С	MET	Α	309	22.049	49.730	62.373		31.95
ATOM	1306	0	MET			21.722	48.707	61.803		30.98
ATOM	1307	N	ASN			21.524	50.114	63.533		
ATOM	1308	CA	ASN			20.596	49.259		1.00	
ATOM	1309	CB	ASN					64.222		29.40
ATOM						20.682	49.399	65.740	1.00	
	1310	CG	ASN .			19.856	48.367	66.437	1.00	27.68
ATOM	1311		ASN			19.354	47.447	65.813	1.00	29.66
MOTA	1312		ASN .			19.705	48.510	67.716	1.00	33.43
MOTA	1313	С	ASN .			19.200	49.500	63.779	1.00	28.30
MOTA	1314	0	ASN	Α	310	18.451	50.222	64.401		27.73
ATOM	1315	N	ILE .	Α	311	18.846	48.843	62.697		27.73
MOTA	1316	CA	ILE .	Α	311	17.551	49.035	62.095		27.56
ATOM	1317	CB	ILE .			17.512	48.340	60.716		
ATOM	1318	CG1	ILE .			17.674				27.87
ATOM	1319	CD1					46.832	60.877	1.00	
			ILE .			17.431	46.067	59.586		30.28
ATOM	1320	CG2	ILE .			18.627	48.900	59.813		26.32
ATOM	1321	С	ILE .			16.426	48.527	62.986	1.00	27.67
ATOM	1322	0	ILE .			15.270	48.876	62.772	1.00	26.32
MOTA	1323	N	PHE .	A	312	16.743	47.673	63.962		27.05
MOTA	1324 .	CA	PHE .	Α	312	15.712	47.191	64.860	1.00	27.71
ATOM	1325	CB	PHE .			15.912	45.742	65.210	1.00	
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ATOM	1326	CG	DUE	7	212	15 070	44 020	64 005	1 00	20 56
			PHE			15.972	44.830	64.025		30.56
MOTA	1327	CD1				14.930	44.751	63.132		33.57
MOTA	1328	CE1	PHE	Α	312	15.002	43.880	62.056	1.00	34.17
MOTA	1329	CZ	PHE	Α	312	16.097	43.102	61.881	1.00	30.86
ATOM	1330	CE2	PHE	Α	312	17.141	43.200	62.740		32.22
ATOM	1331	CD2	PHE			17.080	44.036			
ATOM		C						63.813		30.37
	1332		PHE			15.639	47.984	66.132	1.00	
MOTA	1333	0	PHE			14.954	47.584	67.055	1.00	27.20
MOTA	1334	N	ILE			16.320	49.119	66.175	1.00	27.49
MOTA	1335	CA	ILE	Α	313	16.347	49.962	67.369	1.00	27.89
ATOM	1336	CB	ILE	Α	313	16.930	51.352	67.053		28.55
ATOM	1337	CG1	ILE	Δ	313	17.083	52.165	68.338		30.16
ATOM	1338	CD1	ILE			18.307		69.062		
ATOM		CG2					51.894			32.74
	1339		ILE			15.997	52.163	66.153		28.45
ATOM	1340	С	ILE			14.978	50.173	68.011	1.00	27.28
MOTA	1341	0	ILE	Α	313	14.855	50.228	69.234	1.00	25.99
MOTA	1342	N	ASN	Α	314	13.937	50.282	67.209	1.00	26.62
MOTA	1343	CA	ASN	Α	314	12.657	50.633	67.794	1.00	
ATOM	1344	CB	ASN			11.963	51.673	66.924	1.00	
ATOM	1345	CG	ASN			12.678	52.999			
ATOM			ASN					66.963		27.02
	1346					13.114	53.432	68.029		26.48
ATOM	1347	ND2				12.839	53.639	65.804	1.00	22.53
ATOM	1348	С	ASN			11.743	49.459	68.101	1.00	27.34
ATOM	1349	0	ASN	A	314	10.663	49.659	68.618	1.00	26.98
ATOM	1350	N	LEU	Α	315	12.129	48.234	67.775		27.24
ATOM	1351	CA	LEU			11.284	47.104	68.186		27.35
ATOM	1352	CB	LEU							
ATOM						11.893	45.812	67.700		27.88
	1353	CG	LEU			11.525	45.351	66.290		26.48
ATOM	1354		LEU			11.990	46.339	65.254	1.00	27.10
MOTA	1355	CD2	LEU	Α	315	12.178	43.998	66.046	1.00	25.47
MOTA	1356	С	LEU	Α	315	11.103	47.023	69.708	1.00	27.78
ATOM	1357	0	LEU	Α	315	11.920	47.539	70.454		27.60
MOTA	1358	N	THR			10.042	46.367	70.175		28.13
ATOM	1359	CA	THR			9.909	46.112	71.607		
ATOM	1360	СВ	THR							27.86
						8.501	45.649	72.040		28.10
ATOM	1361	OG1	THR			8.198	44.376	71.449	1.00	27.75
ATOM	1362	CG2	THR			7.379	46.626	71.553	1.00	28.03
MOTA	1363	С	THR	A	316	10.867	44.987	71.906	1.00	28.42
MOTA	1364	0	THR	Α	316	11.296	44.234	71.005	1.00	27.89
ATOM	1365	N	LYS	Α	317	11.205	44.859	73.170		28.21
MOTA	1366	CA	LYS			12.083	43.788	73.582		29.61
ATOM	1367	CB	LYS			12.335	43.874	75.072	1.00	
ATOM	1368	CG	LYS							
						13.101	45.134	75.396		35.45
ATOM	1369	CD	LYS			13.102	45.413	76.884		40.21
MOTA	1370	CE	LYS	Α	317	13.594	46.816	77.178	1.00	42.60
ATOM	1371	NZ	LYS	Α	317	13.784	47.032	78.663	1.00	44.22
MOTA	1372	С	LYS	Α	317	11.571	42.420	73.195		28.22
ATOM	1373	0	LYS			12.322	41.615	72.668		28.15
ATOM	1374	N	ASP			10.298	42.157	73.404		27.35
ATOM	1375	CA	ASP			9.763	40.869			
								72.998		27.77
ATOM	1376	CB	ASP			8.318	40.714	73.411		28.12
ATOM	1377	CG	ASP			8.149	40.575	74.895		29.65
MOTA	1378		ASP			9.139	40.324	75.600	1.00	32.17
ATOM	1379	OD2	ASP	Α	318	7.042	40.709	75.437	1.00	33.70
MOTA	1380	С	ASP	Α	318	9.857	40.710	71.487		27.58
ATOM	1381	0	ASP			10.193	39.642	70.994		26.40
MOTA	1382	N	GLU			9.545	41.779	70.753		27.26
						2.313	,,,	, 0 . 1 3 3	1.00	2,.20

ATOM	1383	CA	GLU A	319	9.654	41.726	69.297	1.00	27.35
MOTA	1384	CB	GLU A	319	9.215	43.059	68.665	1.00	26.85
ATOM	1385	CG	GLU A			43.239	68.659		27.76
ATOM	1386	CD	GLU A			44.596	68.139	1.00	28.50
ATOM	1387	OE1				45.575	68.204	1.00	26.61
MOTA	1388	OE2	GLU A	319	6.142	44.666	67.660	1.00	30.18
ATOM	1389	C	GLU A			41.382	68.887	1.00	26.65
MOTA	1390	0	GLU A	319	11.306	40.580	68.009	1.00	26.83
ATOM	1391	N	PHE A	320	12.037	41.993	69.529	1.00	26.87
MOTA	1392	CA	PHE A	320	13.389	41.771	69.102	1.00	26.86
MOTA	1393	CB	PHE A	320	14.348	42.801	69.688	1.00	26.73
ATOM	1394	CG	PHE A	320	15.748	42.614	69.219	1.00	27.92
MOTA	1395	CD1	PHE A			42.986	67.921	1.00	29.52
MOTA	1396	CE1	PHE A	320	17.402	42.797	67.443	1.00	28.77
MOTA	1397	CZ	PHE A	320	18.356	42.205	68.270		29.30
MOTA	1398	CE2	PHE A	320	17.995	41.810	69.567		27.36
MOTA	1399	CD2	PHE A	320	16.693	42.022	70.032		25.87
ATOM	1400	C	PHE A	320	13.803	40.339	69.470	1.00	
MOTA	1401	0	PHE A	320		39.666	68.695	1.00	
MOTA	1402	N	VAL A	321	13.343	39.848	70.610		26.30
ATOM	1403	CA	VAL A	321		38.481	71.004		27.36
MOTA	1404	CB	VAL A	321	13.097	38.102	72.378		28.09
ATOM	1405	CG1	VAL A	321		36.595	72.643		30.42
ATOM	1406	CG2	VAL A			38.904	73.465		29.24
ATOM	1407	C	VAL A	321		37.506	69.963		26.89
ATOM	1408	0	VAL A			36.623	69.500		24.83
ATOM	1409	N	GLU A			37.673	69.566		26.22
ATOM	1410	CA	GLU A	322	11.315	36.754	68.564		26.33
ATOM	1411	CB	GLU A	322	9.799	36.997	68.409		27.22
MOTA	1412	CG	GLU A		9.160	35.961	67.493		27.71
ATOM	1413	CD	GLU A		7.725	36.251	67.078		30.34
ATOM	1414	OE1			7.167	37.307	67.440		28.94
ATOM	1415	OE2			7.174	35.363	66.374		30.54
ATOM	1416	С	GLU A		12.027	36.853	67.200		25.04
ATOM	1417	0	GLU A		12.359	35.870	66.558		24.18
MOTA	1418	N	LEU A		12.238	38.064	66.750		25.14
ATOM	1419	CA	LEU A		12.900	38.284	65.467		25.11
ATOM	1420	СВ	LEU A		12.980	39.765	65.170		24.79
ATOM	1421	CG	LEU A		13.931	39.995	63.988		31.17
ATOM	1422	CD1			13.112	39.978	62.755		34.32
ATOM	1423	CD2	LEU A		14.626	41.270	64.062		38.15
ATOM	1424	С	LEU A		14.325	37.664	65.393		23.72
ATOM	1425	0	LEU A		14.632		64.457		21.93
MOTA	1426	N	ARG A			37.959	66.370		23.18
ATOM	1427	CA	ARG A			37.431	66.400		23.10
ATOM	1428	СВ	ARG A			37.949	67.648		23.61
ATOM	1429	CG	ARG A		18.697	37.403	67.847		24.20
ATOM	1430	CD	ARG A		19.392	38.064	69.020		26.16
ATOM	1431	NE	ARG A			37.364	69.495		24.79
ATOM	1432	CZ	ARG A		21.762	37.377	68.902		25.46
ATOM	1433		ARG A			37.999	67.750		24.35
ATOM	1434		ARG A		22.758	36.715	69.439		26.40
MOTA	1435	С	ARG A		16.514	35.891	66.403		22.60
ATOM	1436	ō	ARG A		17.231	35.244	65.645		21.33
ATOM	1437	N	ALA A		15.663	35.321	67.250		22.71
ATOM	1438	CA	ALA A			33.858	67.309		23.79
ATOM	1439	СВ	ALA A		14.528	33.412	68.450		23.58
		_	•				55.450	1.00	

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MOTA	1440	С	ALA			15.048	33.282	65.986	1.00	23.21
ATOM	1441	0	ALA	Α	325	15.569	32.283	65.546	1.00	23.48
MOTA	1442	N	LEU	Α	326	14.106	33.925	65.328	1.00	23.68
MOTA	1443	CA	LEU	Α	326	13.659	33.431	64.022	1.00	24.72
MOTA	1444	CB	LEU	Α	326	12.438	34.202	63.535		24.80
MOTA	1445	CG	LEU	Α	326	11.086	33.812	64.128		26.92
ATOM	1446	CD1				10.053	34.843	63.794		28.73
ATOM	1447	CD2				10.643	32.449	63.620		28.88
ATOM	1448	C	LEU			14.753	33.523			
ATOM	1449	0	LEU			15.000		62.972		24.03
ATOM	1450						32.601	62.211		24.50
		N	VAL			15.411	34.661	62.926		24.35
ATOM	1451	CA	VAL			16.445	34.899	61.946		23.95
ATOM	1452	CB	VAL			17.012	36.355	62.065	1.00	24.09
ATOM	1453	CG1				18.254	36.505	61.213	1.00	24.65
ATOM	1454	CG2	VAL			15.958	37.402	61.683	1.00	24.81
ATOM	1455	С	VAL			17.573	33.871	62.114	1.00	24.26
ATOM	1456	0	VAL	Α	327	18.028	33.284	61.151		23.56
ATOM	1457	N	ILE	Α	328	18.043	33.676	63.348		24.09
ATOM	1458	CA	ILE			19.117	32.722	63.604		25.47
ATOM	1459	CB	ILE			19.419	32.652	65.128		25.33
ATOM	1460	CG1				20.096	33.946	65.572		24.87
ATOM	1461	CD1	ILE			20.095	34.169	67.069		
ATOM	1462	CG2	ILE			20.053				25.34
ATOM	1463	C	ILE				31.445	65.454		27.55
ATOM			ILE			18.734	31.324	63.109		25.63
	1464	0				19.521	30.638	62.437		24.56
MOTA	1465	N	GLU			17.529	30.911	63.472		25.02
ATOM	1466	CA	GLU			17.033	29.621	63.074		25.69
ATOM	1467	CB	GLU			15.651	29.462	63.661	1.00	26.39
MOTA	1468	CG	GLU			15.015	28.128	63.447	1.00	28.62
MOTA	1469	CD	GLU	А	329	13.774	27.965	64.251	1.00	30.27
MOTA	1470	OE1	GLU	Α	329	12.726	28.590	63.910		31.97
MOTA	1471	OE2	GLU	Α	329	13.859	27.213	65.217		31.39
MOTA	1472	C	GLU	Α	329	16.950	29.483	61.564		25.48
MOTA	1473	0	GLU			17.318	28.461	60.994		25.01
MOTA	1474	N	MET	Α	330	16.405	30.506	60.919		25.01
ATOM	1475	CA	MET			16.219	30.465	59.491		24.90
ATOM	1476	СВ	MET			15.467	31.717	59.014		25.26
ATOM	1477	CG	MET			13.963	31.638			
ATOM	1478	SD	MET					59.294		28.72
ATOM	1479	CE	MET			13.152	33.195	58.943		33.82
ATOM	1480	CE				11.977	32.587	58.351		36.77
			MET			17.553	30.373	58.767	1.00	
ATOM	1481	0	MET			17.676	29.602	57.852	1.00	
ATOM	1482	N	VAL			18.526	31.192	59.134	1.00	23.88
ATOM	1483	CA	VAL			19.840	31.155	58.469		24.46
ATOM	1484	CB	VAL			20.697	32.395	58.800	1.00	24.19
MOTA	1485		VAL			21.991	32.321	58.081	1.00	25.88
MOTA	1486	CG2	VAL	A	331	19.969	33.691	58.339	1.00	25.26
ATOM	1487	C	VAL	Α	331	20.574	29.813	58.747		24.51
MOTA	1488	0	VAL	Α	331	21.174	29.231	57.843		23.67
MOTA	1489	N	LEU	Α	332	20.452	29.268	59.952		24.08
ATOM	1490	CA	LEU			21.028	27.954	60.197		25.02
ATOM	1491	СВ	LEU			20.928	27.551	61.677		25.83
ATOM	1492	CG	LEU			21.819	28.398	62.563		26.90
ATOM	1493		LEU			21.638	28.097	64.076		30.05
ATOM	1494		LEU			23.253	28.183	62.192		
ATOM	1495	C	LEU			20.367				29.47
ATOM	1496	0	LEU				26.899	59.316		24.24
-11011	1 - J U	_	ULIO	_	J J Z	20.983	25.915	58.966	T.00	22.81

7 TPΩM	1407	NT.	7 7 7	70	222	10 100	05 140	50 011	
ATOM	1497	N			333	19.133	27.140	58.911	1.00 24.56
ATOM	1498	CA			333	18.431	26.173	58.082	1.00 24.92
ATOM	1499	CB			333	16.924	26.426	58.136	1.00 25.23
MOTA	1500	С	ALA	Α	333	18.968	26.205	56.632	1.00 24.78
ATOM	1501	0	ALA	Α	333	18.619	25.350	55.836	1.00 24.42
ATOM	1502	N	THR	Α	334	19.819	27.173	56.293	1.00 23.73
ATOM	1503	CA	THR	Α	334	20.484	27.140	54.981	1.00 24.11
ATOM	1504	CB			334	20.791	28.556	54.447	1.00 23.67
ATOM	1505	OG1			334	21.731			
ATOM	1506				334		29.222	55.300	1.00 22.04
		CG2				19.540	29.381	54.513	1.00 24.28
ATOM	1507	С			334	21.746	26.294	54.942	1.00 24.62
MOTA	1508	0			334	22.347	26.124	53.884	1.00 26.26
ATOM	1509	N			335	22.173	25.782	56.080	1.00 25.09
ATOM	1510	CA	ASP	Α	335	23.301	24.848	56.105	1.00 25.88
ATOM	1511	CB	ASP	Α	335	23.653	24.532	57.544	1.00 25.88
ATOM	1512	CG	ASP	Α	335	24.810	23.569	57.664	1.00 28.05
ATOM	1513		ASP			25.247	22.982	56.644	1.00 29.12
ATOM	1514		ASP			25.329	23.353	58.767	
ATOM	1515	C	ASP						1.00 26.41
						22.868	23.548	55.351	1.00 26.26
ATOM	1516	0			335	21.949	22.834	55.767	1.00 24.79
MOTA	1517	N			336	23.532	23.254	54.244	1.00 26.73
ATOM	1518	CA	MET			23.141	22.126	53.404	1.00 27.61
ATOM	1519	CB	MET	Α	336	23.979	22.091	52.127	1.00 27.16
MOTA	1520	CG	MET	Α	336	23.656	23.232	51.171	1.00 30.08
ATOM	1521	SD	MET	Α	336	22.026	23.228	50.458	1.00 31.97
ATOM	1522	CE	MET			22.087	21.842	49.508	1.00 30.55
ATOM	1523	C	MET			23.246	20.791	54.154	1.00 28.26
ATOM	1524	Ō	MET			22.589			
ATOM	1525	N			337		19.835	53.780	1.00 26.53
						24.067	20.738	55.204	1.00 29.77
ATOM	1526	CA			337	24.191	19.510	55.997	1.00 31.39
ATOM	1527	CB			337	25.355	19.610	56.985	1.00 31.59
ATOM	1528	OG			337	24.993	20.406	58.099	1.00 34.71
ATOM	1529	C	SER	Α	337	22.872	19.202	56.705	1.00 31.60
MOTA	1530	0	SER	Α	337	22.638	18.089	57.130	1.00 32.24
ATOM	1531	N	CYS	Α	338	22.001	20.194	56.826	1.00 31.43
ATOM	1532	CA	CYS			20.694	20.002	57.455	1.00 31.29
ATOM	1533	CB	CYS			20.355	21.263	58.271	1.00 31.29
ATOM	1534	SG	CYS						
ATOM						21.646	21.631	59.545	1.00 36.90
	1535	С	CYS			19.582	19.724	56.388	1.00 30.25
ATOM	1536	0	CYS			18.384	19.614	56.710	1.00 28.49
ATOM	1537	N	HIS			19.974	19.644	55.121	1.00 28.75
MOTA	1538	CA	HIS			18.986	19.496	54.058	1.00 28.67
ATOM	1539	CB	HIS	Α	339	19.664	19.406	52.686	1.00 27.90
ATOM	1540	CG	HIS	Α	339	18.709	18.984	51.623	1.00 26.96
ATOM	1541	ND1	HIS			17.784	19.844	51.066	1.00 29.81
ATOM	1542		HIS			17.143	19.220	50.094	1.00 27.11
ATOM	1543		HIS			17.640	18.001		
ATOM	1544		HIS			18.643		49.980	1.00 27.00
							17.843	50.902	1.00 23.50
ATOM	1545	С	HIS			18.022	18.278	54.200	1.00 28.48
ATOM	1546	0	HIS			16.805	18.427	54.165	1.00 28.39
ATOM	1547	N	PHE			18.561	17.080	54.321	1.00 28.95
MOTA	1548	CA	PHE	Α	340	17.700	15.894	54.416	1.00 29.74
MOTA	1549	CB	PHE	Α	340	18.530	14.620	54.277	1.00 29.41
ATOM	1550	CG	PHE	Α	340	19.138	14.485	52.923	1.00 30.39
ATOM	1551		PHE			18.336	14.409	51.807	1.00 31.03
ATOM	1552		PHE			18.885	14.297	50.553	1.00 31.03
ATOM	1553	CZ	PHE			20.244	14.302	50.387	1.00 31.30
				••		_0.211	± 4 . J U Z	20.367	1.00 31.77

MOTA	1554	CE2	PHE A	340	21.059	14.414	51.477	1.00 32.89
MOTA	1555	CD2			20.507	14.507	52.746	1.00 32.31
MOTA	1556	С	PHE A	340	16.799	15.852	55.650	1.00 30.27
MOTA	1557	0	PHE A	340	15.606	15.553	55.536	1.00 28.38
MOTA	1558	N	GLN A	341	17.338	16.228	56.812	1.00 31.56
MOTA	1559	CA	GLN A	341	16.548	16.190	58.034	1.00 32.34
MOTA	1560	CB	GLN A	341	17.386	16.545	59.285	1.00 33.22
MOTA	1561	CG	GLN A	341	17.110	15.623	60.471	1.00 38.91
MOTA	1562	CD	GLN A	341	17.358	16.254	61.847	1.00 44.17
MOTA	1563	OE1	GLN A	341	18.457	16.763	62.132	1.00 46.44
ATOM	1564	NE2	GLN A	341	16.338	16.185	62.720	1.00 45.71
ATOM	1565	С	GLN A		15.379	17.122	57.870	1.00 32.30
ATOM	1566	0	GLN A		14.257	16.794	58.247	1.00 32.20
MOTA	1567	N	GLN A		15.617	18.279	57.269	1.00 31.68
ATOM	1568	CA	GLN A		14.549	19.244	57.113	1.00 32.49
MOTA	1569	CB	GLN A		15.076	20.555	56.521	1.00 32.49
ATOM	1570	CG	GLN A		15.254	21.651	57.530	1.00 32.20
ATOM	1571	CD	GLN A		15.514	22.990	56.849	1.00 32.73
ATOM	1572	OE1			16.567	23.173	56.241	1.00 30.30
ATOM	1573	NE2			14.558	23.894	56.932	1.00 27.47
ATOM	1574	C	GLN A		13.433	18.779	56.210	1.00 28.01
ATOM	1575	ō	GLN A		12.255	19.002	56.490	
ATOM	1576	N	VAL A		13.802	18.176	55.096	1.00 33.03
ATOM	1577	CA	VAL A		12.807	17.835	54.113	1.00 32.75
ATOM	1578	CB	VAL A		13.464			1.00 33.01
ATOM	1579	CG1			12.475	17.479	52.796	1.00 33.01
ATOM	1580	CG2				16.757	51.866	1.00 32.64
ATOM	1581	C	VAL A		14.000	18.728	52.154	1.00 32.32
ATOM	1582	0	VAL A		11.960	16.678	54.615	1.00 34.15
ATOM	1583	N	LYS A		10.745	16.698	54.529	1.00 34.28
ATOM	1584	CA	LYS A		12.590	15.682	55.196	1.00 34.97
ATOM	1585	CB	LYS A		11.818	14.556	55.603	1.00 36.70
ATOM	1586	CG			12.700	13.331	55.778	1.00 37.61
ATOM		CD	LYS A		13.616	13.335	56.938	1.00 40.80
ATOM	1587 1588	CE	LYS A		14.172	11.912	57.123	1.00 45.37
ATOM	1589		LYS A		15.169	11.840	58.288	1.00 48.63
		NZ	LYS A		15.740	10.447	58.442	1.00 50.88
ATOM ATOM	1590	C	LYS A		10.996	14.856	56.851	1.00 36.61
	1591	0	LYS A		9.792	14.568	56.905	1.00 37.27
ATOM	1592	N	THR A		11.639	15.408	57.858	1.00 36.08
ATOM	1593	CA	THR A		10.922	15.821	59.033	1.00 36.55
ATOM	1594	CB	THR A		11.811	16.755	59.882	1.00 37.09
ATOM	1595	OG1	THR A		12.761	15.975	60.637	1.00 38.22
ATOM	1596	CG2			11.026			1.00 38.58
ATOM	1597	C	THR A		9.625	16.505	58.583	1.00 36.03
ATOM	1598	0	THR A		8.564	16.282	59.148	1.00 35.29
ATOM	1599	N	MET A		9.677	17.324	57.540	1.00 35.44
ATOM	1600	CA	MET A		8.437	17.978	57.115	1.00 35.18
ATOM	1601	CB	MET A		8.715	19.191	56.228	1.00 34.25
ATOM	1602	CG	MET A		7.488	19.905	55.788	1.00 34.26
ATOM	1603	SD	MET A		6.807	21.015	57.007	1.00 36.20
ATOM	1604	CE	MET A		6.313	20.001	58.138	1.00 41.66
ATOM	1605	C	MET A		7.491	17.009	56.391	1.00 34.84
ATOM	1606	0	MET A		6.267	17.107	56.528	1.00 32.59
ATOM	1607	N	LYS A		8.068	16.135	55.575	1.00 35.13
ATOM	1608	CA	LYS A		7.272	15.144	54.885	1.00 36.70
ATOM	1609	CB	LYS A		8.166	14.122	54.201	1.00 37.16
ATOM	1610	CG	LYS A	347	8.482	14.377	52.745	1.00 39.09

ATOM	1611	CD	LYS	Α	347	8.920	13.065	52.117	1.00	41.81
ATOM	1612	CE	LYS	Α	347	9.514	13.225	50.755		44.09
ATOM	1613	NZ	LYS	Α	347	9.476	11.903	50.048		47.02
MOTA	1614	С	LYS	Α	347	6.437	14.428	55.933		36.83
ATOM	1615	0	LYS	Α	347	5.222	14.316	55.800		37.08
ATOM	1616	N			348	7.117	13.945	56.973		36.99
ATOM	1617	CA	THR			6.484	13.239	58.089		36.80
ATOM	1618	СВ	THR			7.551	12.849	59.150		36.62
ATOM	1619		THR			8.570	12.044	58.537		35.13
ATOM	1620	CG2	THR			6.984	11.923	60.222		36.98
ATOM	1621	C	THR			5.366	14.090	58.705		37.68
MOTA	1622	ō	THR			4.247	13.598	58.939		36.47
ATOM	1623	N	ALA			5.639	15.368	58.946		
ATOM	1624	CA	ALA			4.612	16.243	59.505		38.09 39.20
ATOM	1625	CB	ALA			5.163	17.607			
ATOM	1626	C	ALA			3.333		59.767		38.97
ATOM	1627	0	ALA			2.218	16.320	58.630		40.61
ATOM	1628	N	LEU				16.261	59.180		39.98
MOTA	1629	CA	LEU			3.480	16.430	57.303		41.90
ATOM	1630		LEU			2.311	16.513	56.406		43.93
ATOM		CB				2.687	16.985	55.005		44.11
	1631	CG	LEU			3.148	18.434	54.887		45.25
ATOM	1632					3.419	18.752	53.459		46.56
ATOM	1633	CD2	LEU			2.118	19.411	55.450		46.74
ATOM	1634	C	LEU			1.470	15.213	56.325		45.41
ATOM	1635	0	LEU			0.251	15.294	56.301		44.89
ATOM	1636	N	GLN			2.106	14.053	56.166		47.51
ATOM	1637	CA	GLN			1.414	12.796	56.417	1.00	49.57
ATOM	1638	CB	GLN			1.419	11.816	55.242	1.00	49.98
ATOM	1639	CG	GLN			-0.020	11.460	54.778		51.21
ATOM	1640	CD	GLN			-0.738	10.561	55.753	1.00	53.09
ATOM	1641	OE1				-0.729	10.823	56.953	1.00	55.97
ATOM	1642	NE2	GLN			-1.365	9.503	55.249	1.00	54.55
MOTA	1643	С	GLN			2.088	12.262	57.685	1.00	50.70
MOTA	1644	0	GLN			3.280	11.975	57.712	1.00	51.78
ATOM	1645	N	GLN			1.254	12.184	58.709	1.00	51.41
MOTA	1646	CA	GLN			1.514	12.011	60.149	1.00	52.33
ATOM	1647	CB	GLN	А	352	2.913	11.866	60.723	1.00	52.54
ATOM	1648	CG	GLN	Α	352	2.743	11.614	62.233	1.00	54.61
MOTA	1649	CD	GLN			3.900	10.907	62.926	1.00	57.23
ATOM	1650	OE1	GLN	Α	352	4.939	10.638	62.321	1.00	58.02
ATOM	1651	NE2	GLN	Α	352	3.707	10.591	64.213	1.00	58.40
MOTA	1652	С	GLN	Α	352	1.096	13.435	60.274		52.58
ATOM	1653	0	GLN	Α	352	1.853	14.377	60.516		
ATOM	1654	N	LEU	Α	353	-0.172	13.520	60.000		52.59
MOTA	1655	CA	LEU	Α	353	-0.925	14.690	59.693		52.45
MOTA	1656	CB	LEU	Α	353	-2.292	14.096	59.506		52.83
MOTA	1657	CG	LEU	Α	353	-2.968	14.587	58.263		53.29
MOTA	1658	CD1	LEU	Α	353	-2.069	14.235	57.109		54.18
MOTA	1659	CD2	LEU	A	353	-4.247	13.857	58.241		53.56
MOTA	1660	С	LEU			-1.259	15.954	60.456		52.10
ATOM	1661	0	LEU			-2.414	16.340	60.373		52.31
MOTA	1662	N	GLU			-0.425	16.677	61.173		51.68
ATOM	1663	CA	GLU			-1.023	17.998	61.371		51.00
MOTA	1664	CB	GLU			-2.066	18.158	62.483		51.22
MOTA	1665	CG	GLU			-3.112	19.143	61.920		52.24
MOTA	1666	CD	GLU			-4.443	19.240	62.646		54.10
MOTA	1667		GLU			-4.529	.18.886	63.840		56.03
						1.525	0.000	02.040	1.00	50.03

ATOM	1668	OE2	GLU	Α	354	-5.417	19.710	62.015	1.00	56.46
MOTA	1669	С	GLU	Α	354	-0.221	19.237	61.123	1.00	49.78
ATOM	1670	0	GLU	Α	354	0.656	19.219	60.277	1.00	50.05
MOTA	1671	N	ARG	Α	355	-0.584	20.342	61.760		48.58
ATOM	1672	CA	ARG			0.010	21.583	61.312		48.12
ATOM	1673	СВ	ARG			-0.538	22.859	61.979		48.84
ATOM	1674	CG	ARG			-0.930	22.740	63.416		
ATOM	1675	CD	ARG							51.18
ATOM	1676	NE				-2.412	22.597	63.599	1.00	
			ARG			-2.819	21.213	63.840		57.72
ATOM	1677	CZ	ARG			-2.716	20.574	65.008		59.06
ATOM	1678		ARG			-2.219	21.188	66.072		59.99
ATOM	1679	NH2	ARG			-3.116	19.312	65.114		59.23
MOTA	1680	С	ARG			1.491	21.551	61.453		45.66
MOTA	1681	0	ARG			2.118	20.664	62.041	1.00	45.55
MOTA	1682	N	ILE			2.030	22.576	60.861	1.00	43.00
MOTA	1683	CA	ILE	Α	356	3.397	22.776	60.851	1.00	40.82
MOTA	1684	CB	ILE	Α	356	3.797	22.797	59.428	1.00	41.74
ATOM	1685	CG1	ILE	Α	356	3.286	21.502	58.792		42.54
ATOM	1686	CD1	ILE			3.471	21.514	57.355		46.54
ATOM	1687	CG2	ILE			5.289	22.974	59.325		41.20
ATOM	1688	С	ILE			3.452	24.118	61.457		38.75
ATOM	1689	Ō	ILE			2.635	24.110	61.144		
ATOM	1690	N	ASP			4.375	24.278			37.54
ATOM	1691	CA	ASP			4.603		62.372		36.88
ATOM	1692		ASP				25.565	62.980		36.37
		CB				5.775	25.482	63.975		36.94
ATOM	1693	CG	ASP			6.192	24.061	64.281		38.37
ATOM	1694	OD1	ASP			5.970	23.153	63.441		45.18
MOTA	1695		ASP			6.756	23.736	65.341	1.00	42.63
MOTA	1696	С	ASP			4.995	26.464	61.778	1.00	34.92
MOTA	1697	0	ASP			5.469	25.963	60.759	1.00	32.72
ATOM	1698	N	LYS			4.768	27.767	61.880	1.00	33.63
MOTA	1699	CA	LYS	Α	358	5.236	28.673	60.843	1.00	33.15
MOTA	1700	CB	LYS	Α	358	4.703	30.080	61.048		33.54
MOTA	1701	CG	LYS	Α	358	3.327	30.357	60.445		34.80
ATOM	1702	CD	LYS	Α	358	2.995	31.803	60.830		37.48
ATOM	1703	CE	LYS			1.555	32.128	61.140		36.06
ATOM	1704	NZ	LYS			1.482	33.522	61.730		35.42
ATOM	1705	C	LYS			6.764	28.704	60.807		31.31
ATOM	1706	0	LYS			7.319	28.694	59.752		31.31
ATOM	1707	N	PRO			7.440	28.737			30.21
ATOM	1708	CA	PRO			8.913		61.954		
ATOM	1709	CB	PRO			9.242	28.717	61.968	1.00	
ATOM	1710	CG					28.534	63.438		29.49
			PRO			8.053	29.158	64.179		29.60
ATOM	1711	CD	PRO			6.875	28.876	63.308		29.90
MOTA	1712	C	PRO			9.510	27.599	61.127		27.66
ATOM	1713	0	PRO			10.407	27.806	60.288		26.82
MOTA	1714	N	LYS			9.008	26.401	61.308	1.00	25.51
MOTA	1715	CA	LYS	Α	360	9.481	25.292	60.502	1.00	25.11
ATOM	1716	CB	LYS	А	360	8.800	24.022	60.989	1.00	25.87
MOTA	1717	CG	LYS	Α	360	9.303	22.795	60.353		26.57
MOTA	1718	CD	LYS	Α	360	8.548	21.583	60.885		30.32
MOTA	1719	CE	LYS	Α	360	8.968	20.331	60.151		30.02
ATOM	1720	NZ	LYS			10.367	20.036	60.578		30.81
MOTA	1721	С	LYS			9.252	25.469	58.964		24.60
ATOM	1722	0	LYS			10.101	25.121	58.156		23.16
ATOM	1723	N	ALA			8.092	25.982	58.566		24.34
ATOM	1724	CA	ALA			7.829	26.225	57.143		24.04
	·	•				023		JTJ	1.00	24.04

ATOM	1725	CB	ALA	Α	361	6.328	26.507	56.913	1.00	24.51
MOTA	1726	C	ALA	Α	361	8.668	27.372	56.615	1.00	23.42
ATOM	1727	0	ALA	Α	361	9.157	27.313	55.479	1.00	24.59
MOTA	1728	N			362	8.854	28.400	57.433		22.89
MOTA	1729	CA	LEU	Α	362	9.672	29.541	57.036	1.00	23.47
MOTA	1730	CB	LEU	Α	362	9.568	30.669	58.058		23.00
MOTA	1731	CG	LEU	Α	362	8.197	31.341	58.145		24.77
ATOM	1732	CD1	LEU	Α	362	8.161	32.247	59.341	1.00	25.84
ATOM	1733	CD2	LEU	Α	362	7.885	32.116	56.883		24.30
ATOM	1734	С	LEU	Α	362	11.151	29.147	56.855		23.10
MOTA	1735	0	LEU	Α	362	11.836	29.675	55.975		23.09
MOTA	1736	N	SER	Α	363	11.642	28.255	57.718		21.53
ATOM	1737	CA	SER	Α	363	12.994	27.776	57.579		20.99
MOTA	1738	CB			363	13.404	26.929	58.771		20.20
MOTA	1739	OG			363	13.962	27.765	59.752		20.07
ATOM	1740	С			363	13.102	26.993	56.306		20.81
ATOM	1741	0			363	14.053	27.136	55.541		20.16
ATOM	1742	N			364	12.096	26.179	56.045		21.38
ATOM	1743	CA			364	12.099	25.393	54.836		21.49
ATOM	1744	CB			364	10.931	24.397	54.871		23.06
ATOM	1745	CG			364	10.800	23.642	53.574		23.22
ATOM	1746	CD1	LEU			12.019	22.817	53.341		25.06
ATOM	1747	CD2	LEU			9.522	22.777	53.551		24.91
ATOM	1748	C	LEU			12.025	26.279	53.594		21.33
ATOM	1749	Ō	LEU			12.708	26.037	52.611		20.27
ATOM	1750	N	LEU			11.206	27.318	53.661		22.02
ATOM	1751	CA	LEU			11.200	28.281	52.562		
ATOM	1752	CB	LEU			9.983	29.307	52.899		23.61
ATOM	1753	CG	LEU			10.005	30.622			23.87
ATOM	1754	CD1	LEU			9.881		52.093		26.79
ATOM	1755		LEU			8.927	30.370 31.537	50.610		29.67
ATOM	1756	C	LEU			12.424	28.987	52.577 52.242		27.76
ATOM	1757	0	LEU			12.424	29.079			23.37
ATOM	1758	N	LEU			13.147	29.430	51.077		24.18
ATOM	1759	CA	LEU			14.438		53.270		23.52
ATOM	1760	CB	LEU			15.020	30.092 30.663	53.044		22.61
ATOM	1761	CG	LEU					54.327		22.46
ATOM	1762	CD1				16.359 16.239	31.387	54.140		23.17
ATOM	1763	CD2	LEU				32.475	53.039		23.81
ATOM	1764	C	LEU			16.871	32.013	55.432		21.84
ATOM	1765	0	LEU			15.386	29.132	52.380		22.38
ATOM	1766	N	HIS			16.118	29.477	51.425		23.42
ATOM	1767	CA	HIS			15.342	27.890	52.816		22.06
ATOM	1768	CB	HIS			16.218	26.901	52.259		21.44
ATOM	1769	CG				16.126	25.602	53.036		21.40
ATOM	1770		HIS HIS			16.981	24.516	52.474		22.23
ATOM	1771					18.327	24.671	52.234		26.81
ATOM	1772		HIS			18.823	23.543	51.757		22.83
ATOM			HIS			17.850	22.658	51.689		26.16
MOTA	1773		HIS			16.686	23.242	52.132		23.15
ATOM	1774	C	HIS			15.899	26.683	50.781		22.51
ATOM	1775 1776	O N	HIS			16.790	26.566	49.927		22.57
	1776	N	ALA			14.617	26.523	50.490		22.80
ATOM	1777	CA	ALA			14.180	26.343	49.119		23.11
ATOM	1778 1779	CB	ALA			12.674	26.217	49.115		23.25
ATOM		C	ALA			14.626	27.542	48.248		22.38
ATOM	1780	0	ALA			15.144	27.386	47.144		22.23
MOTA	1781	N	ALA	А	369	14.402	28.740	48.748	1.00	22.34

MOTA	1782	CA	ALA	Α	369	14.763	29.927	47.984	1.00	22.30
MOTA	1783	CB	ALA			14.295	31.153	48.684	1.00	21.94
MOTA	1784	С	ALA			16.267	29.977	47.719	1.00	22.37
ATOM	1785	0	ALA			16.706	30.404	46.658		22.52
MOTA	1786	N	ASP			17.041	29.484	48.669		22.47
MOTA	1787	CA	ASP			18.483	29.460	48.566		23.23
ATOM	1788	CB	ASP			19.065	28.914	49.859		23.02
ATOM	1789	CG	ASP			20.543	29.146	49.999	1.00	23.78
MOTA	1790	OD1				21.110	30.060	49.334		21.73
ATOM	1791	OD2	ASP			21.210	28.453	50.811		22.98
ATOM	1792	С	ASP			18.943	28.603	47.376		24.15
ATOM	1793	0	ASP			19.931	28.961	46.717		23.57
ATOM	1794	N	ILE			18.250	27.481	47.117		23.80
ATOM ATOM	1795	CA	ILE			18.618	26.583	46.032		24.25
ATOM	1796	CB	ILE			18.872	25.124	46.548		24.47
ATOM	1797 1798	CG1 CD1	ILE			17.607	24.497	47.137		26.11
ATOM	1799	CG2	ILE			17.772	23.030	47.496		26.20
ATOM	1800	C	ILE			19.950	25.102	47.601		24.53
ATOM	1801	0	ILE			17.555	26.608	44.922		24.55
ATOM	1802	N	SER			17.295 16.985	25.592 27.789	44.245		23.68
ATOM	1803	CA	SER			15.882	27.789	44.713		24.65
ATOM	1804	CB	SER			14.973	29.101	43.793		24.65
ATOM	1805	OG	SER			15.624	30.360	44.260		24.84
ATOM	1806	C	SER			16.265	28.194	44.220		24.06 25.14
ATOM	1807	Ö	SER			15.409	28.061	41.458		26.12
ATOM	1808	N	HIS			17.515	28.517	42.037		24.22
ATOM	1809	CA	HIS			17.810	28.865	40.663		24.25
ATOM	1810	CB	HIS			19.214	29.435	40.523		24.70
ATOM	1811	CG	HIS			20.317	28.468	40.770		22.07
ATOM	1812		HIS			20.912	27.757	39.755		20.48
ATOM	1813		HIS			21.909	27.049	40.247		22.93
MOTA	1814		HIS			22.006	27.306	41.543		23.08
MOTA	1815		HIS			21.023	28.190	41.893		22.70
ATOM	1816	С	HIS			17.484	27.798	39.590		24.20
MOTA	1817	0	HIS	Α	373	17.168	28.148	38.476		23.16
MOTA	1818	N	PRO	Α	374	17.567	26.506	39.891		24.09
MOTA	1819	CA	PRO	Α	374	17.149	25.492	38.903		24.49
MOTA	1820	CB	PRO	Α	374	17.645	24.189	39.513		24.83
MOTA	1821	CG	PRO	Α	374	18.728	24.651	40.472	1.00	
MOTA	1822	CD	PRO	Α	374	18.165	25.894	41.074	1.00	
MOTA	1823	C	PRO			15.636	25.472	38.641	1.00	24.59
MOTA	1824	0			374	15.163	24.715		1.00	24.20
ATOM	1825	N	THR			14.881	26.285	39.377	1.00	23.93
MOTA	1826	CA	THR			13.470	26.405	39.105	1.00	24.98
ATOM	1827	CB	THR			12.621	26.390	40.383		24.88
ATOM	1828	OG1				12.787	27.629	41.071		23.17
ATOM	1829	CG2				13.081	25.295	41.335		25.98
ATOM	1830	C	THR			13.164	27.697	38.326		25.55
MOTA	1831	0	THR			12.006	28.061	38.178		24.63
ATOM ATOM	1832	N	LYS			14.196	28.382	37.833		26.33
ATOM	1833 1834	CA	LYS			13.978	29.595	37.067		27.42
ATOM	1834	CB CG	LYS LYS			14.861	30.767	37.564		27.88
ATOM	1836	CD	LYS			14.881 13.588	30.998	39.078		29.07
ATOM	1837	CE	LYS				31.571	39.603		28.35
ATOM	1838	NZ	LYS			13.627	31.712	41.155		28.75
71011	1020	147	птэ	М	3/0	14.519	32.749	41.681	T.00	24.40

ATOM	1839	С	LYS	Α	376	14.290	29.324	35.610	1.00	27.14
ATOM	1840	0	LYS	A	376	14.678	28.231	35.245	1.00	26.48
MOTA	1841	N	GLN	Α	377	14.135	30.344	34.786	1.00	27.78
ATOM	1842	CA	GLN	Α	377	14.443	30.231	33.362	1.00	28.81
MOTA	1843	CB	GLN	Α	377	14.203	31.568	32.656	1.00	30.16
MOTA	1844	CG	GLN			15.192	31.912	31.517	1.00	34.69
MOTA	1845	CD	GLN			14.951	31.106	30.267	1.00	36.84
MOTA	1846	OE1	GLN			15.819	31.045	29.396	1.00	38.66
ATOM	1847	NE2	GLN			13.781	30.455	30.186	1.00	36.35
MOTA	1848	C	GLN			15.873	29.805	33.151	1.00	27.65
ATOM	1849	0			377	16.803	30.263	33.849	1.00	27.16
ATOM	1850	N	TRP			16.026	28.925	32.172	1.00	26.67
ATOM	1851	CA	TRP			17.286	28.317	31.806	1.00	26.36
ATOM	1852	CB	TRP			17.172	27.628	30.445	1.00	26.04
ATOM	1853	CG	TRP			18.493	27.266	29.920	1.00	26.73
ATOM	1854	CD1	TRP			19.125	27.824	28.862		27.65
ATOM	1855	NE1	TRP			20.351	27.235	28.670	1.00	26.88
ATOM	1856	CE2	TRP			20.542	26.292	29.644		28.04
ATOM	1857	CD2	TRP			19.395	26.291	30.455		26.48
ATOM	1858	CE3	TRP			19.340	25.403	31.532		28.71
ATOM	1859	CZ3	TRP			20.410	24.573	31.764		28.65
ATOM	1860	CH2	TRP			21.539	24.604	30.941		29.65
ATOM	1861	CZ2	TRP			21.626	25.456	29.879		28.26
ATOM	1862	C	TRP			18.459	29.270	31.756	1.00	26.37
ATOM	1863	0	TRP			19.497	28.967	32.309		26.75
ATOM	1864	N	LEU			18.330	30.386	31.055		26.03
ATOM	1865	CA	LEU			19.446	31.325	30.962		26.34
ATOM	1866	CB	LEU			19.112	32.480	30.006		26.31
ATOM	1867	CG	LEU			19.035	32.021	28.545		28.60
ATOM	1868		LEU			18.549	33.121	27.593		29.05
ATOM	1869	CD2	LEU			20.426	31.515	28.102		30.40
ATOM	1870	C	LEU			19.890	31.854	32.347		26.00
ATOM	1871	0	LEU			21.073	32.092	32.569		24.91
ATOM ATOM	1872	N	VAL			18.930	32.043	33.250		25.74
ATOM	1873 1874	CA CB	VAL			19.212	32.492	34.598		26.12
ATOM	1875	CG1	VAL VAL			17.899	32.907	35.299		26.51
ATOM	1876		VAL			18.130	33.253	36.761		27.24
ATOM	1877	C	VAL			17.275	34.110	34.592		26.66
ATOM	1878	0	VAL			19.933	31.371	35.362		25.88
ATOM	1879	N	HIS			21.033	31.575	35.912		25.41
ATOM	1880	CA	HIS			19.309 19.850	30.187 29.009	35.374	1.00	
ATOM	1881	CB	HIS			18.887		36.040		25.70
ATOM	1882	CG	HIS			19.496	27.811 26.498	35.900		27.02
ATOM	1883		HIS			20.382	26.369	36.294		28.48
ATOM	1884		HIS			20.362	25.105	37.348 37.447		31.18
ATOM	1885		HIS			20.764	24.406	36.508		32.99 31.47
ATOM	1886		HIS			19.341	25.252	35.779		30.38
ATOM	1887	C	HIS			21.220	28.666	35.507		25.07
ATOM	1888	0	HIS			22.129	28.297	36.242		23.07
ATOM	1889	N	SER			21.384	28.861	34.209		24.96
ATOM	1890	CA	SER			22.631	28.554	33.552		24.96
ATOM	1891	СВ	SER			22.475	28.722	32.031		25.20
ATOM	1892	OG	SER			23.721	28.448	31.450		27.04
ATOM	1893	C	SER			23.705	29.501	34.047		24.06
ATOM	1894	ō	SER			24.825	29.106	34.351		22.47
ATOM	1895	N	ARG			23.361	30.778	34.117		24.06
							-			

ATOM	1896	CA	ARG A	4	383	24.325	31.752	34.635	1.00	24.23
MOTA	1897	CB	ARG A	A	383	23.724	33.156	34.501	1.00	24.39
MOTA	1898	CG	ARG A	4	383	24.654	34.260	34.885	1.00	25.79
MOTA	1899	CD	ARG A	Ą	383	24.163	35.677	34.448	1.00	27.41
MOTA	1900	NE	ARG I	4	383	25.109	36.668	34.918	1.00	28.29
ATOM	1901	cz	ARG A			25.121	37.948	34.578	1.00	31.93
MOTA	1902	NH1				24.234	38.449	33.727	1.00	29.79
ATOM	1903	NH2				26.042	38.734	35.109	1.00	33.03
ATOM	1904	С	ARG A			24.728	31.466	36.116	1.00	23.58
ATOM	1905	0	ARG A			25.921	31.525	36.513	1.00	22.76
ATOM	1906	N	TRP A			23.745	31.170	36.951	1.00	22.86
ATOM	1907	CA	TRP A			24.062	30.890	38.348	1.00	23.10
ATOM	1908	CB	TRP A			22.796	30.648	39.185	1.00	23.10
MOTA	1909	CG	TRP A			22.065	31.887	39.563		22.04
MOTA	1910	CD1				20.809	32.237	39.193	1.00	22.49
ATOM	1911	NE1	TRP A			20.484	33.460	39.724		21.98
ATOM	1912	CE2	TRP A			21.530	33.906	40.473		22.67
ATOM	1913	CD2				22.545	32.935	40.391		22.06
ATOM	1914	CE3	TRP A			23.749	33.168	41.065		22.15
ATOM	1915	CZ3	TRP A			23.887	34.314	41.792		23.76
ATOM	1916	CH2	TRP A			22.856	35.264	41.863		22.86
ATOM	1917	CZ2	TRP A			21.671	35.080	41.218	1.00	23.85
ATOM	1918	C	TRP A			24.974	29.656	38.442		23.45
ATOM.	1919	O N	TRP A			25.929	29.614	39.239		22.51
ATOM	1920	N	THR A			24.694	28.661	37.613		23.20
ATOM	1921	CA	THR A			25.471	27.418	37.649		23.79
ATOM	1922	CB	THR A			24.897	26.393	36.681		23.45
MOTA MOTA	1923	OG1	THR A			23.573	26.023	37.093		21.43
ATOM	1924 1925	CG2 C	THR A			25.711	25.111	36.762		24.20
ATOM	1926	0	THR A			26.930	27.657	37.326		24.71
ATOM	1927	N	THR A			27.846	27.154	38.011		25.00
ATOM	1928	CA	LYS A			27.147	28.444	36.286		25.34
MOTA	1929	CB	LYS A			28.498	28.772	35.861	1.00	
ATOM	1930	CG	LYS A			28.507	29.574	34.566		26.86
ATOM	1931	CD	LYS A			27.867	28.840	33.394		32.40
ATOM	1932	CE	LYS A			28.372 27.330	27.383 26.377	33.297		37.67
ATOM	1933	NZ	LYS A			27.330	25.113	32.746		40.90
ATOM	1934	C	LYS A			29.215	29.531	32.232		42.85
MOTA	1935	Ö	LYS A			30.392	29.290	36.927 37.160	1.00	
ATOM	1936	N	ALA A			28.524	30.449	37.180		24.54
ATOM	1937	CA	ALA A			29.169	31.178	38.647		24.06
ATOM	1938	CB	ALA A			28.305	32.284	39.125	1.00	
ATOM	1939	C	ALA A			29.539	30.228	39.820		24.57
ATOM	1940	0	ALA A			30.608	30.331	40.397		22.98
MOTA	1941	N	LEU A			28.645	29.325	40.205		25.08
MOTA	1942	CA	LEU A			28.989	28.421	41.297		25.69
ATOM	1943	СВ	LEU A			27.813	27.550	41.681		25.56
ATOM	1944	CG	LEU A			28.004	26.711	42.937		26.22
ATOM	1945	CD1	LEU A			28.296	27.577	44.166		24.97
ATOM	1946		LEU A			26.752	25.845	43.136		27.36
ATOM	1947	C	LEU A			30.186	27.556	40.875		25.96
ATOM	1948	0	LEU A			31.130	27.339	41.645		24.98
MOTA	1949	N	MET A			30.160	27.053	39.649		26.68
ATOM	1950	CA	MET A	:	389	31.315	26.270	39.163		27.11
MOTA	1951	CB	MET A	. :	389	31.230	26.036	37.662		27.58
ATOM	1952	CG	MET A	. :	389	30.391	24.910	37.229		31.62

ATOM	1953	SD	MET A	389	30.625	24.733	35.417	1.00	41.06
ATOM	1954	CE	MET A	389	29.044	25.100	34.985		40.20
MOTA	1955	C	MET A	389	32.621	27.000	39.343		26.85
MOTA	1956	0	MET A	389		26.454	39.820		25.99
ATOM	1957	N	GLU A	390		28.227	38.841		26.88
ATOM	1958	CA	GLU A		33.872	28.995	38.942		27.32
ATOM	1959	CB	GLU A			30.361	38.300		27.79
ATOM	1960	CG	GLU A			31.173	38.356		33.00
ATOM	1961	CD	GLU A		35.958	30.801	37.252		37.88
ATOM	1962	OE1	GLU A		36.515	29.678	37.263		39.61
ATOM	1963	OE2	GLU A		36.161	31.643	36.344		45.53
ATOM	1964	C	GLU A		34.261	29.143	40.418		26.07
ATOM	1965	Ö	GLU A		35.441	29.092	40.416		
ATOM	1966	N	GLU A		33.284	29.323	41.288		25.12
ATOM	1967	CA	GLU A		33.623	29.458			23.94
ATOM	1968	CB	GLU A		32.372		42.705		24.41
ATOM	1969	CG	GLU A			29.923	43.485		24.12
ATOM	1970	CD	GLU A		32.632	30.313	44.912		25.04
ATOM	1971	OE1	GLU A		31.414	30.952	45.578		25.32
ATOM	1971	OE1			30.907	31.979	45.065		23.43
ATOM			GLU A		30.970	30.413	46.597		22.30
	1973	C	GLU A		34.228	28.153	43.275		23.49
ATOM	1974	0	GLU A		35.221	28.166	43.991		23.27
ATOM	1975	N	PHE A		33.626	27.022	42.939		24.07
ATOM	1976	CA	PHE A		34.155	25.719	43.336		24.96
ATOM	1977	CB	PHE A		33.234	24.584	42.832	1.00	24.85
ATOM	1978	CG	PHE A		31.924	24.411	43.615	1.00	26.39
ATOM	1979	CD1			31.693	25.070	44.819	1.00	27.69
ATOM	1980	CE1	PHE A		30.503	24.883	45.527	1.00	28.48
ATOM	1981	CZ	PHE A		29.538	24.056	45.044	1.00	29.03
ATOM	1982	CE2	PHE A		29.736	23.387	43.846	1.00	26.93
MOTA	1983	CD2	PHE A	392	30.925	23.578	43.132	1.00	27.48
MOTA	1984	C	PHE A	392	35.572	25.524	42.764		25.22
ATOM	1985	0	PHE A	392	36.489	25.045	43.460	1.00	
ATOM	1986	N	PHE A	393	35.769	25.906	41.507	1.00	25.54
MOTA	1987	CA	PHE A	393	37.081	25.753	40.874		26.62
MOTA	1988	CB	PHE A	393	37.081	26.137	39.371		26.72
ATOM	1989	CG	PHE A	393	36.338	25.169	38.469		28.49
ATOM	1990	CD1	PHE A	393	36.074	23.867	38.866		31.86
ATOM	1991	CE1	PHE A	393	35.420	22.996	38.025		33.03
ATOM	1992	CZ	PHE A		35.000	23.418	36.768		32.91
ATOM	1993	CE2	PHE A	393	35.274	24.695	36.349		31.80
ATOM	1994	CD2	PHE A		35.936	25.567	37.196		30.44
ATOM	1995	С	PHE A	393	38.101	26.598	41.612		26.66
ATOM	1996	0	PHE A		39.242	26.159	41.793		26.56
ATOM	1997	N	ARG A		37.731	27.805	42.022		26.47
ATOM	1998	CA	ARG A		38.669	28.608	42.828		27.94
ATOM	1999	CB	ARG A		38.159	30.033	43.030		28.25
ATOM	2000	CG	ARG A		37.794	30.694	41.700		32.07
ATOM	2001	CD	ARG A		37.926	32.197			
ATOM	2002	NE	ARG A		37.571	32.774	41.679 40.383		36.10
ATOM	2002	CZ	ARG A		37.115				
ATOM	2004		ARG A		36.949	34.011	40.216		39.49
ATOM	2005		ARG A		36.828	34.816	41.264		38.49
ATOM	2005	C	ARG A			34.442	38.996		40.53
ATOM	2007	0	ARG A		38.975 40.094	27.930	44.187		27.72
ATOM	2007	N	GLN A		38.013	28.022	44.689		27.82
ATOM	2009	CA	GLN A			27.208	44.752		26.72
77 1011	2003	CA	ЭЦИ А	375	38.282	26.496	45.989	1.00	27.02

MOTA	2010	CB	GLN	Α	395	37.009	25.911	46.602	1.00	25.76
MOTA	2011	CG	GLN	Α	395	37.356	24.927	47.720	1.00	24.09
MOTA	2012	CD	GLN	Α	395	36.161	24.376	48.449	1.00	21.03
MOTA	2013	OE1			395	35.252	25.136	48.811	1.00	23.00
MOTA	2014	NE2			395	36.131	23.065	48.642	1.00	14.40
MOTA	2015	С	GLN	Α	395	39.281	25.352	45.694	1.00	28.12
MOTA	2016	0	GLN	Α	395	40.242	25.101	46.436	1.00	27.34
MOTA	2017	N	GLY	Α	396	39.031	24.663	44.591	1.00	30.14
MOTA	2018	CA	GLY	Α	396	39.897	23.580	44.168	1.00	31.76
ATOM	2019	С	GLY	Α	396	41.307	24.084	43.979	1.00	32.83
MOTA	2020	0	GLY	Α	396	42.263	23.416	44.326		32.79
ATOM	2021	N	ASP	Α	397	41.434	25.275	43.403	1.00	33.94
MOTA	2022	N	ASP	Α	397	41.434	25.274	43.401	1.00	33.94
MOTA	2023	CA	ASP	Α	397	42.747	25.884	43.203		33.90
MOTA	2024	CA	ASP	Α	397	42.747	25.885	43.203		33.90
ATOM	2025	CB	ASP	Α	397	42.609	27.263	42.551		33.91
ATOM	2026	CG	ASP	Α	397	42.238	27.189	41.061		34.42
MOTA	2027	OD1	ASP			42.365	26.116	40.432		32.84
ATOM	2028		ASP			41.786	28.181	40.449		35.45
ATOM	2029	С			397	43.472	26.031	44.548		33.83
MOTA	2030	0			397	44.669	25.688	44.681		32.98
ATOM	2031	N			398	42.758	26.564	45.543		33.23
ATOM	2032	CA			398	43.348	26.760	46.855		33.66
ATOM	2033	СВ			398	42.409	27.521	47.782		33.96
ATOM	2034	CG			398	42.119	28.910	47.334		37.00
ATOM	2035	CD			398	41.189	29.576	48.313		41.20
ATOM	2036	CE			398	40.895	31.018	47.947		42.84
ATOM	2037	NZ	LYS			39.731	31.425	48.802		45.52
ATOM	2038	C			398	43.682	25.428	47.483		32.68
ATOM	2039	Ō			398	44.656	25.296	48.171		31.74
ATOM .	2040	N			399	42.842	24.439	47.254		33.10
ATOM	2041	CA			399	43.061	23.154	47.254		
ATOM	2042	CB			399	41.900	22.224	47.541		33.54 33.88
ATOM	2043	CG			399	40.696	22.391			
ATOM	2044	CD			399	39.453	21.710	48.469		33.67 32.76
ATOM	2045	OE1	GLU			39.406	21.710	47.946		
ATOM	2045	OE2	GLU			38.510	21.407	46.746		34.24
ATOM	2047	C			399	44.400	22.609	48.722		33.16
ATOM	2047	0			399	45.109	22.809	47.359		34.41
ATOM	2049	N			400			48.073		33.63
ATOM	2050	CA			400	44.791 46.049	23.003 22.502	46.158		35.14
ATOM	2050	CB			400	45.998		45.616		36.07
ATOM	2052	C	ALA				22.465	44.100		35.95
ATOM	2052	0			400	47.238		46.111		36.46
ATOM	2053	N			400	48.269	22.761	46.446		36.92
ATOM	2055					47.078	24.641	46.170		37.47
ATOM	2055	CA CB			401	48.105	25.552	46.659		38.37
ATOM			GLU			47.547	26.973	46.741		38.85
	2057	CG	GLU			48.538	28.104	46.509		41.02
ATOM ATOM	2058 2059	CD			401	47.928	29.301	45.779		43.99
ATOM			GLU			46.802	29.178	45.236		46.97
ATOM	2060 2061	C C	GLU GLU			48.589	30.370	45.730		46.19
ATOM						48.548	25.125	48.046		38.98
ATOM	2062 2063	O N	GLU			49.674	25.427	48.456		39.61
ATOM	2063	CA	LEU			47.676	24.413	48.766		39.19
ATOM	2064	CB	LEU			47.981	23.982	50.127		39.54
ATOM	2065	CG				46.758	24.135	51.021		39.28
ATOM	2000	CG	LEU	А	402	46.095	25.489	51.135	1.00	39.06

ATOM	2067	CD1	LEU	A	402	44.828	25.329	51.962	1.00	39.80
MOTA	2068	CD2	LEU			47.010	26.503	51.759	1.00	38.80
ATOM	2069	С	LEU	А	402	48.406	22.526	50.206	1.00	40.09
ATOM	2070	0	LEU			48.529	21.976	51.296		39.33
ATOM	2071	N	GLY			48.598	21.899	49.053	1.00	41.17
MOTA	2072	CA	GLY			48.964	20.497	49.009		41.98
ATOM	2073	C	GLY			47.817	19.634	49.496	1.00	42.83
ATOM	2074	0	GLY			48.003	18.649	50.210		42.85
ATOM	2075	N	LEU			46.611	20.004	49.097		44.00
ATOM	2076	CA	LEU			45.430	19.283	49.516		44.84
ATOM	2077	CB	LEU			44.473	20.259	50.203		44.91
ATOM	2078	CG	LEU			43.873	19.866	51.543		44.38
ATOM	2079	CD1	LEU			44.972	19.526	52.530		44.94
ATOM	2080	CD2	LEU			43.030	21.022	52.046		45.04
ATOM	2081	C	LEU			44.743	18.658	48.313		46.09
ATOM	2082	0	LEU			44.833	19.192	47.210		46.08
ATOM	2083	N	PRO			44.094	17.511	48.517		47.73
ATOM	2084	CA	PRO			43.272	16.860	47.491		48.96
ATOM	2085	CB	PRO			42.383	15.934	48.323		48.82
ATOM ATOM	2086	CG	PRO			43.275	15.497	49.417		48.16
ATOM	2087 2088	CD C	PRO PRO			44.152	16.695	49.742		47.92
ATOM	2089	0	PRO			42.432 42.956	17.818	46.610		50.43
ATOM ·	2099	N	PHE			42.956	18.823	46.130		50.88
ATOM	2091	CA	PHE			40.378	17.516 18.271	46.388		52.14
ATOM	2092	CB	PHE			40.376		45.410		53.38
ATOM	2093	CG	PHE			41.261	17.795 18.871	44.009 43.121		53.74
ATOM	2094	CD1	PHE			42.618	19.099	43.121		55.29
ATOM	2095	CE1	PHE			43.113	20.081	43.028		56.77 56.93
ATOM	2096	CZ	PHE			42.260	20.854	41.479		57.15
ATOM	2097	CE2	PHE			40.906	20.634	41.554		57.15
ATOM	2098	CD2	PHE			40.406	19.646	42.372		56.81
ATOM	2099	C	PHE			38.918	17.997	45.570		53.95
ATOM	2100	Ō	PHE			38.396	17.095	44.919		54.89
MOTA	2101	N	SER			38.247	18.770	46.411		54.32
ATOM	2102	CA	SER			36.826	18.574	46.622		54.37
ATOM	2103	CB	SER			36.226	19.778	47.336		54.31
ATOM	2104	OG	SER			36.585	19.704	48.707		54.30
MOTA	2105	С	SER			36.131	18.283	45.300		54.53
ATOM	2106	0	SER	Α	407	36.508	18.820	44.258		54.76
ATOM	2107	N	PRO	Α	408	35.189	17.348	45.328		54.52
ATOM	2108	CA	PRO	Α	408	34.378	17.030	44.160		54.44
MOTA	2109	CB	PRO	Α	408	33.223		44.762		54.49
MOTA	2110	CG	PRO			33.854	15.490	45.864		55.10
ATOM	2111	CD	PRO	Α	408	34.891	16.443	46.447		54.92
MOTA	2112	C	PRO	Α	408	33.843	18.249	43.429		54.20
MOTA	2113	0	PRO	Α	408	33.377	19.216	44.046		54.07
ATOM	2114	N	LEU	Α	409	33.926	18.178	42.104		53.81
MOTA	2115	CA	LEU	Α	409	33.425	19.219	41.227	1.00	53.49
MOTA	2116	CB	LEU			31.924	19.452	41.454		53.79
MOTA	2117	CG	LEU			31.088	18.262	40.982		54.46
MOTA	2118		LEU			31.371	17.972	39.499		55.74
ATOM	2119		LEU			31.375	17.023	41.832	1.00	55.05
ATOM	2120	C	LEU			34.222	20.493	41.399	1.00	52.71
ATOM	2121	0	LEU			33.802	21.540	40.954		52.70
ATOM	2122	N	CYS			35.393	20.390	42.012		51.97
ATOM	2123	CA	CYS	Α	410	36.268	21.545	42.147	1.00	51.53

MOTA	2124	СВ	CYS	Α	410	36.720	21.739	43.600	1.00	51.24
MOTA	2125	SG	CYS	Α	410	35.406	22.078	44.816	1.00	49.97
ATOM	2126	C			410	37.494	21.422	41.223	1.00	51.90
ATOM	2127	0			410	38.328	22.334	41.182	1.00	51.42
ATOM	2128	N	ASP	Α	411	37.611	20.305	40.495	1.00	52.17
MOTA	2129	CA	ASP	Α	411	38.732	20.127	39.559	1.00	52.42
MOTA	2130	CB	ASP	Α	411	39.188	18.671	39.469	1.00	52.63
ATOM	2131	CG	ASP			40.535	18.539	38.788		52.94
ATOM	2132	OD1	ASP	Α	411	40.724	19.172	37.726		53.03
MOTA	2133	OD2	ASP	Α	411	41.471	17.854	39.251		54.40
ATOM	2134	C	ASP	Α	411	38.370		38.178		52.49
ATOM	2135	0	ASP	Α	411	37.556		37.471		52.50
ATOM	2136	N	ARG	Α	412	39.004	21.749	37.797		52.76
ATOM	2137	CA	ARG	Α	412	38.685		36.537		53.06
MOTA	2138	CB	ARG	Α	412	39.369		36.447		53.21
ATOM	2139	CG	ARG	Α	412	40.050		37.682		53.57
ATOM	2140	CD	ARG	Α	412	41.130		37.357		54.24
ATOM	2141	NE	ARG			40.986		38.162		53.43
MOTA	2142	CZ	ARG	Α	412	40.144		37.880		53.14
MOTA	2143	NH1	ARG			39.381		36.799		53.72
ATOM	2144	NH2	ARG	Α	412	40.056		38.678		53.72
ATOM	2145	С	ARG			39.064		35.265	1.00	
ATOM	2146	0	ARG	Α	412	38.864	_	34.177		52.97
MOTA	2147	N	THR			39.609		35.376		53.17
ATOM	2148	CA	THR			40.013		34.188	1.00	
ATOM	2149	CB	THR			41.357		34.408		53.01
MOTA	, 2150	OG1	THR			41.292		35.560		52.46
MOTA	2151	CG2	THR			42.435		34.736		52.82
ATOM	2152	С	THR			38.960		33.908	1.00	
ATOM	2153	0	THR			39.139		33.092	1.00	
ATOM	2154	N	SER			37.836		34.584		53.93
ATOM	2155	CA	SER			36.797		34.448		53.99
ATOM	2156	CB	SER			36.759		35.695	1.00	54.14
ATOM	2157	OG	SER			36.053	17.619	36.757	1.00	
ATOM	2158	С	SER			35.459		34.283		53.74
ATOM	2159	0	SER			35.105		35.064	1.00	
ATOM	2160	N	THR			34.739		33.229		53.20
ATOM	2161	CA	THR			33.338	18.552	33.194		52.73
ATOM	2162	CB	THR			32.857		31.898		52.75
MOTA	2163	OG1	THR			33.710	20.279	31.522	1.00	54.64
ATOM	2164	CG2	THR			31.486		32.145	1.00	53.22
MOTA	2165	C	THR			32.580	17.268	33.342	1.00	51.49
MOTA	2166	0	THR			32.804		32.589		51.49
ATOM	2167	N	LEU			31.702	17.283	34.338		49.74
ATOM	2168	CA	LEU			30.696		34.557		47.88
ATOM	2169	СВ	LEU			31.293	14.998	35.158		
ATOM	2170	CG	LEU			32.135	14.172	34.190		47.94 48.59
ATOM	2171		LEU			32.456	12.856	34.831		49.29
ATOM	2172		LEU			31.439		32.815		49.29
ATOM	2173	C	LEU			29.715	16.968	35.482		46.04
ATOM	2174	O	LEU			28.987	16.346	36.269		
ATOM	2175	N	VAL			29.682	18.296	35.334		45.62 43.74
ATOM	2176	CA	VAL			28.835	19.129	36.157		43.74
ATOM	2177	СВ	VAL			29.188	20.662	36.137		42.45
ATOM	2178		VAL			30.630	20.896	35.701		42.45
ATOM	2179		VAL			28.243	21.407	35.701		42.88
ATOM	2180	C	VAL			27.444	18.929	35.649		39.98
				-			,	55.045	I.00	JJ . JO

MOTA	2181	0	VAL	Α	417	26.505	18.941	36.419	1.00	39.37
ATOM	2182	N	ALA	Α	418	27.297	18.743	34.344	1.00	37.66
MOTA	2183	CA	ALA	Α	418	25.971	18.530	33.812	1.00	36.10
ATOM	2184	CB	ALA	Α	418	26.006	18.312	32.319	1.00	36.69
ATOM	2185	C	ALA			25.413	17.311	34.522	1.00	34.62
MOTA	2186	0	ALA	Α	418	24.294	17.320	35.020	1.00	33.90
MOTA	2187	N	GLN			26.211	16.257	34.567	1.00	33.43
MOTA	2188	CA	GLN			25.801	15.039	35.264	1.00	32.58
ATOM	2189	CB	GLN			26.960	14.030	35.328	1.00	32.55
ATOM	2190	CG	GLN			26.881	12.962	34.297		30.63
ATOM	2191	CD	GLN			28.173	12.188	34.143		28.63
ATOM	2192		GLN			28.966	12.088	35.080		24.69
ATOM	2193	NE2				28.376	11.612	32.960		26.19
ATOM	2194	C	GLN			25.341	15.401	36.660		31.23
ATOM	2195	0	GLN			24.214	15.128	37.050		30.47
ATOM	2196	N	SER			26.217	16.057	37.398		30.40
ATOM	2197	CA	SER			25.907	16.442	38.758		29.60
ATOM	2198	CB	SER			27.086	17.161	39.361		30.20
ATOM	2199	OG	SER			28.073	16.216	39.697		30.67
ATOM	2200	C	SER			24.705	17.320	38.903		28.74
ATOM	2201	0	SER			23.915	17.148	39.832		27.13
ATOM ATOM	2202	N	GLN			24.534	18.249	37.971		28.14
ATOM	2203 2204	CA CB	GLN			23.463	19.205	38.113		28.12
ATOM	2204	CG	GLN GLN			23.529	20.346	37.061		27.93
MOTA	2205	CD				24.376	21.536	37.451		28.62
ATOM	2200		GLN GLN			23.970	22.152	38.794		27.82
ATOM	2208		GLN			24.180	21.545	39.868		24.84
ATOM	2209	C	GLN			23.382 22.159	23.335	38.738		27.34
ATOM	2210	0	GLN			21.189	18.474	37.989		27.78
ATOM	2211	N	ILE			22.134	18.820 17.490	38.645		27.88
ATOM	2212	CA	ILE			20.952	16.678	37.107 36.920		27.53 27.69
ATOM	2213	СВ	ILE			21.206	15.628	35.821		28.13
ATOM	2214	CG1				20.965	16.238	34.443		29.25
ATOM	2215	CD1				21.794	15.609	33.329		28.39
ATOM	2216	CG2	ILE			20.274	14.425	36.000		29.39
ATOM	2217	С	ILE			20.605	15.996	38.231		27.20
ATOM	2218	0	ILE			19.454	16.006	38.654		27.05
ATOM	2219	N	GLY			21.609	15.384	38.859		27.02
ATOM	2220	CA	GLY			21.420	14.763	40.162		26.61
ATOM	2221	C	GLY			20.897	15.751	41.188		26.37
ATOM	2222	0	GLY	Α	423	19.964	15.449	41.950		26.24
ATOM	2223	N	PHE	Α	424	21.507	16.935	41.214		25.42
ATOM	2224	CA	PHE			21.141	17.969	42.182		26.20
MOTA	2225	CB	PHE	Α	424	22.074		42.005		26.15
ATOM	2226	CG	PHE	Α	424	21.747	20.357	42.874		27.29
ATOM	2227	CD1	PHE	Α	424	21.787	20.250	44.244		27.03
ATOM	2228	CE1	PHE	A	424	21.539	21.346	45.031		26.58
ATOM	2229	CZ	PHE			21.243	22.540	44.464		27.74
ATOM	2230		PHE			21.204	22.670	43.096		29.45
ATOM	2231		PHE			21.466	21.593	42.310	1.00	27.67
ATOM	2232	C	PHE			19.684	18.355	42.033	1.00	25.88
ATOM	2233	0	PHE			18.939	18.419	43.012		25.26
ATOM	2234	N	ILE			19.247	18.579	40.796		25.85
ATOM	2235	CA	ILE			17.856	18.932	40.564		26.20
ATOM	2236	CB	ILE			17.649	19.290	39.083		27.05
ATOM	2237	CG1	ILE	Α	425	18.301	20.639	38.760	1.00	28.37

7 TOM	2220	CD1	TT 17		425	.10 443	00 000	25 221	
ATOM	2238		ILE A			18.443	20.933	37.291	1.00 29.34
ATOM	2239	CG2	ILE A			16.172	19.330	38.764	1.00 28.96
ATOM	2240	С	ILE A			16.915	17.805	40.961	1.00 26.48
ATOM	2241	0	ILE A	Ą	425	15.891	18.016	41.625	1.00 26.08
MOTA	2242	N	ASP A	4	426	17.244	16.588	40.550	1.00 26.32
ATOM	2243	CA	ASP A	4	426	16.340	15.502	40.806	1.00 26.90
ATOM	2244	CB	ASP A	A	426	16.759	14.305	40.008	1.00 27.65
ATOM	2245	CG	ASP Z			15.743	13.216	40.086	1.00 31.92
ATOM	2246		ASP 2			16.006	12.204	40.762	1.00 35.31
ATOM	2247		ASP I			14.617	13.320	39.547	
ATOM	2248	C	ASP A			16.283			1.00 38.28
ATOM	2249		ASP A				15.063	42.257	1.00 26.11
		0				15.222	14.805	42.791	1.00 25.25
ATOM	2250	N	PHE A			17.444	14.977	42.888	1.00 25.69
ATOM	2251	CA	PHE A			17.549	14.373	44.218	1.00 25.29
ATOM	2252	CB	PHE A			18.873	13.586	44.353	1.00 25.10
ATOM	2253	CG	PHE A			18.954	12.757	45.604	1.00 25.47
ATOM	2254		PHE A			17.898	11.963	45.966	1.00 22.33
ATOM	2255	CE1	PHE A	4	427	17.943	11.216	47.090	1.00 23.83
ATOM	2256	CZ	PHE A	Ą	427	19.046	11.233	47.894	1.00 23.70
ATOM	2257	CE2	PHE A	Ą	427	20.126	12.005	47.560	1.00 24.12
ATOM	2258	CD2	PHE A	Ą	427	20.081	12.782	46.420	1.00 26.51
ATOM	2259	С	PHE A			17.438	15.393	45.342	1.00 24.55
ATOM	2260	Ō	PHE 2			16.931	15.076	46.395	1.00 24.33
ATOM	2261	N	ILE A			17.890	16.622		
ATOM	2262	CA	ILE A					45.102	1.00 24.89
ATOM	2263	CB				17.829	17.692	46.117	1.00 25.39
			ILE A			19.190	18.350	46.217	1.00 25.43
ATOM	2264		ILE A			20.291	17.290	46.353	1.00 28.14
ATOM	2265	CD1	ILE A			20.238	16.464	47.599	1.00 28.91
ATOM	2266	CG2	ILE A			19.190	19.356	47.363	1.00 26.62
ATOM	2267	С	ILE A			16.760	18.794	45.895	1.00 24.98
ATOM	2268	0	ILE A	4	428	15.906	19.067	46.770	1.00 24.03
ATOM	2269	N	VAL A	4	429	16.793	19.434	44.729	1.00 24.61
MOTA	2270	CA	VAL A	Ą	429	15.896	20.554	44.479	1.00 24.93
MOTA	2271	CB	VAL A	A	429	16.350	21.378	43.250	1.00 25.54
ATOM	2272	CG1	VAL A	Ą	429	15.480	22.583	43.093	1.00 26.22
ATOM	2273		VAL A			17.803	21.843	43.391	1.00 26.33
ATOM	2274	С	VAL A			14.405	20.215	44.340	1.00 25.23
ATOM	2275	Ö	VAL A			13.545	20.785	45.022	
ATOM	2276	N	GLU A			14.075			1.00 24.99
ATOM	2277	CA	GLU Z				19.282	43.467	1.00 25.90
ATOM	2277	CB	GLU I			12.674	18.960	43.266	1.00 26.40
						12.524	17.944	42.133	1.00 27.12
MOTA	2279	CG	GLU A			11.089	17.737	41.701	1.00 29.69
MOTA	2280	CD	GLU A			10.370	16.732	42.551	1.00 33.39
ATOM	2281		GLU A			11.020	15.840	43.148	1.00 36.01
ATOM	2282		GLU A			9.128	16.846	42.630	1.00 39.64
ATOM	2283	С	GLU A			11.952	18.518	44.548	1.00 25.70
ATOM	2284	0	GLU A	4	430	10.867	19.000	44.825	1.00 24.21
MOTA	2285	N	PRO A	Ā	431	12.523	17.609	45.335	1.00 26.03
MOTA	2286	CA	PRO A	Ą	431	11.857	17.200	46.582	1.00 26.01
ATOM	2287	CB	PRO A	Ą	431	12.788	16.130	47.173	1.00 26.42
ATOM	2288	CG	PRO A			13.513	15.612	46.020	1.00 27.19
MOTA	2289	CD	PRO A			13.747	16.837	45.091	1.00 26.53
ATOM	2290	C	PRO A			11.689	18.346	47.537	1.00 25.99
ATOM	2291	0	PRO A			10.660	18.429	48.212	
ATOM	2292	N	THR A			12.671	19.246	47.582	1.00 25.32
ATOM	2293	CA	THR A						1.00 25.21
ATOM	2294	CB				12.528	20.395	48.433	1.00 24.48
AION	227 <del>4</del>	CB	THR A	1	734	13.732	21.323	48.335	1.00 24.85

MOTA	2295	OG1	THR	Α	432	1	L4.934	20.608	48.670	1.00	24.22
MOTA	2296	CG2	THR	Α	432	1	13.597	22.431	49.362		24.14
ATOM	2297	С	THR	Α	432	1	11.311	21.140	47.991		24.67
ATOM	2298	0	THR	Α	432	1	10.445	21.452	48.789		23.58
ATOM	2299	N	PHE	Α	433	1	L1.264	21.472	46.709		25.28
MOTA	2300	CA	PHE	Α	433		10.130	22.221	46.196		25.98
ATOM	2301	CB	PHE				10.385	22.775	44.780		26.39
ATOM	2302	CG	PHE				11.108	24.083	44.800		25.14
ATOM	2303		PHE				12.449	24.111	45.077		24.53
ATOM	2304	CE1					13.133	25.306	45.165		27.01
ATOM	2305	CZ	PHE				12.477	26.495	44.997		24.65
ATOM	2306		PHE				1.112	26.492	44.738		26.84
ATOM	2307	CD2					10.429	25.283			
ATOM	2308	C	PHE			_	8.825		44.661		25.32
ATOM	2309	0	PHE				7.785	21.404	46.315		26.92
ATOM	2310	N	SER					21.996	46.565		26.19
ATOM	2311	CA	SER				8.905	20.070	46.233		27.80
ATOM	2311	CB					7.715	19.214	46.392		29.40
ATOM	2312		SER .				8.031	17.723	46.240		29.87
ATOM		OG	SER .				7.891	17.322	44.916		33.52
	2314	C	SER				7.038	19.351	47.734		28.71
ATOM	2315	0	SER				5.849	19.620	47.803		28.35
MOTA	2316	N	VAL .				7.785	19.104	48.799		29.11
ATOM	2317	CA	VAL				7.216	19.227	50.131	1.00	29.31
ATOM	2318	CB	VAL .				8.186	18.776	51.191	1.00	30.49
ATOM	2319	CG1					7.558	18.919	52.546	1.00	30.54
ATOM	2320	CG2	VAL .				8.571	17.318	50.952	1.00	33.27
ATOM	2321	C	VAL .				6.861	20.638	50.457	1.00	28.00
ATOM	2322	0	VAL .				5.848	20.883	51.095		27.93
ATOM	2323	N	LEU .				7.700	21.583	50.057	1.00	27.08
MOTA	2324	CA	LEU .	Α	436		7.415	22.973	50.389		26.78
MOTA	2325	CB	LEU .	Α	436		8.419	23.939	49.748		27.01
MOTA	2326	CG	LEU .	Α	436		8.106	25.396	50.085		26.44
ATOM	2327	CD1					8.154	25.580	51.556		29.31
ATOM	2328	CD2	LEU .				9.098	26.361	49.434		27.11
ATOM	2329	C	LEU .				6.036	23.324	49.855		26.44
ATOM	2330	0	LEU .				5.190	23.866	50.559		25.12
ATOM	2331	N	THR				5.831	23.002	48.589		27.01
ATOM	2332	CA	THR .				4.596	23.359	47.903		27.72
ATOM	2333	CB	THR				4.735	23.044	46.389		28.13
ATOM	2334	OG1	THR				5.880	23.744	45.855		26.85
ATOM	2335	CG2	THR				3.532	23.586	45.605		28.78
ATOM	2336	C	THR				3.427	22.615	48.539		28.78
ATOM	2337	0	THR				2.374	23.197	48.782		
ATOM	2338	N	ASP A				3.605	21.335			28.06
ATOM	2339	CA	ASP A					20.613	48.825		29.55
ATOM	2340	CB	ASP A				2.554		49.539		31.32
ATOM	2341	CG	ASP A				2.974	19.201	49.901		31.69
ATOM	2342						3.106	18.307	48.701		33.50
ATOM	2342		ASP A				2.735	18.720	47.586		34.62
ATOM			ASP A				3.563	17.152	48.782		38.09
	2344	C	ASP A				2.230	21.344	50.823		32.02
ATOM	2345	0	ASP A				1.066	21.500	51.165		32.19
ATOM	2346	N	VAL A				3.267	21.807	51.529		32.56
ATOM	2347	CA	VAL				3.073	22.495	52.795		33.01
ATOM	2348	CB	VAL Z				4.386	22.993	53.387		33.82
ATOM	2349		VAL A				4.102	24.003	54.486		33.83
ATOM	2350		VAL A				5.231	21.841	53.877		33.91
MOTA	2351	С	VAL A	A	439		2.199	23.706	52.625	1.00	33.65

ATOM	2352	0	VAL	Α	439	1.291	23.951	53.425	1.00	32.87
MOTA	2353	N	ALA	Α	440	2.472	24.505	51.600	1.00	34.20
ATOM	2354	CA	ALA			1.640	25.680	51.381	1.00	34.96
ATOM	2355	CB	ALA	Α	440	2.261	26.580	50.357	1.00	35.11
ATOM	2356	С	ALA	Α	440	0.222	25.293	50.938	1.00	35.91
MOTA	2357	0	ALA	Α	440	-0.776	25.843	51.417	1.00	35.09
ATOM	2358	N	GLU	А	441	0.146	24.378	49.984	1.00	37.50
MOTA	2359	CA	GLU	Α	441	-1.138	24.001	49.406	1.00	39.09
ATOM	2360	CB	GLU	Α	441	-0.959	22.958	48.289	1.00	39.75
MOTA	2361	CG	GLU	Α	441	-1.117	21.493	48.697	1.00	42.74
ATOM	2362	CD	GLU	Α	441	-0.896	20.529	47.536	1.00	46.03
ATOM	2363	OE1	GLU	Α	441	-0.477	20.986	46.439	1.00	48.55
ATOM	2364	OE2	GLU	Α	441	-1.131	19.311	47.724	1.00	47.82
MOTA	2365	C	GLU	Α	441	-2.038	23.530	50.547	1.00	39.70
ATOM	2366	0	GLU	Α	441	-3.200	23.928	50.642		39.25
ATOM	2367	N	LYS	Α	442	-1.482	22.715	51.435		40.25
ATOM	2368	CA	LYS	Α	442	-2.202	22.329	52.629		41.17
ATOM	2369	CB	LYS	Α	442	-1.405	21.310	53.450		41.36
ATOM	2370	CG	LYS	Α	442	-1.280	19.944	52.734		43.20
ATOM	2371	CD	LYS	Α	442	-1.095	18.779	53.706		45.79
ATOM	2372	CE	LYS	Α	442	-1.214	17.398	53.024		47.24
ATOM	2373	NZ	LYS	Α	442	-1.312	16.276	54.041		47.79
ATOM	2374	C	LYS			-2.616	23.544	53.469		41.44
ATOM	2375	0	LYS	Α	442	-3.813	23.789	53.632		41.32
ATOM	2376	N	SER	Α	443	-1.656	24.297	54.001		41.62
ATOM	2377	CA	SER	А	443	-1.962	25.457	54.849		41.83
ATOM	2378	CB	SER			-0.719	25.907	55.645		42.23
ATOM	2379	OG	SER	Α	443	0.087	24.810	56.080		39.59
ATOM	2380	С	SER	Α	443	-2.551	26.586	53.987		43.07
ATOM	2381	0	SER			-3.748	26.601	53.743		45.27
ATOM	2382	N	VAL	Α	444	-1.749	27.505	53.485		44.00
ATOM	2383	CA	VAL			-2.226	28.571	52.596		44.39
ATOM	2384	CB	VAL			-3.608	29.137	52.940		44.96
ATOM	2385	CG1	VAL			-3.980	30.212	51.902		45.97
ATOM	2386	CG2	VAL	Α	444	-4.691	28.052	52.941		43.82
ATOM	2387	С	VAL			-1.247	29.705	52.637		44.70
ATOM	2388	0	VAL			-0.052	29.461	52.780		45.36
ATOM	2481	N	VAL			-0.965	27.131	43.786		45.15
ATOM	2482	CA	VAL			-1.139	25.888	42.997		45.18
ATOM	2483	CB	VAL			-2.540	25.283	43.139		45.69
ATOM	2484	CG1	VAL			-2.445	23.779	42.915		46.93
MOTA	2485	CG2	VAL	Α	479	-3.192	25.580	44.509		46.69
ATOM	2486	С	VAL	Α	479	-0.852		41.468		43.92
ATOM	2487	0	VAL			-0.472	25.029	40.804		42.82
ATOM	2488	N	SER			-1.106	27.142	40.875		42.95
ATOM	2489	CA	SER			-0.583	27.343	39.548		42.37
ATOM	2490	СВ	SER			-1.271	28.507	38.864		42.47
ATOM	2491	OG	SER			-1.189	29.663	39.655		43.38
ATOM	2492	С	SER			0.905	27.628	39.845		41.81
ATOM	2493	0	SER			1.797	27.458	39.001		42.01
ATOM	2494	N	PHE			1.158	28.026	41.084		40.36
ATOM	2495	CA	PHE			2.515	28.210	41.568		40.02
ATOM	2496	CB	PHE			2.471	28.396	43.078		40.28
ATOM	2497	CG	PHE			3.821	28.437	43.713		44.16
ATOM	2498	CD1				4.408	29.638	43.992		48.21
ATOM	2499	CE1	PHE			5.656	29.688	44.567		50.87
ATOM	2500	CZ	PHE			6.329	28.517	44.861		49.20
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ATOM	2501	CE2	PHE	Α	481	5.746	27.321	44.592	1.00	48.33
ATOM	2502	CD2	PHE	Α	481	4.509	27.275	44.014	1.00	46.36
ATOM	2503	С	PHE	Α	481	3.357	26.985	41.269		38.33
ATOM	2504	0	PHE	Α	481	4.484	27.063	40.779		37.61
ATOM	2505	N			482	2.781	25.832	41.563		36.99
ATOM	2506	CA			482	3.472	24.583	41.361		35.80
ATOM	2507	CB	ARG			2.680	23.463	42.003		36.00
ATOM	2508	CG			482	2.649	22.203	41.237		38.09
ATOM	2509	CD			482	2.604	20.952	42.086		41.99
ATOM	2510	NE	ARG			1.946	21.138	43.382		43.63
ATOM	2511	CZ			482	2.126	20.333	44.417		46.42
ATOM	2512	NH1	ARG			2.912	19.273	44.292	1.00	
ATOM	2513	NH2				1.525	20.572	45.576		48.50 46.58
ATOM	2514	C			482	3.766	24.273	39.897		
ATOM	2515	0			482	4.829	23.733			34.66
ATOM	2516	N			483			39.589		33.66
ATOM	2517	CA			483	2.863	24.626	38.989		33.18
ATOM	2517	CB	SER			3.096	24.298	37.575		32.89
ATOM	2518					1.821	24.459	36.720		32.71
	2520	OG C	SER			1.088	25.621	37.063		32.91
ATOM		C	SER			4.276	25.103	37.035		32.05
ATOM	2521	0			483	5.053	24.625	36.222		32.02
ATOM	2522	N	THR			4.454	26.307	37.544		31.83
ATOM	2523	CA	THR			5.609	27.106	37.157		31.70
ATOM	2524	CB	THR			5.578	28.418	37.898	1.00	
ATOM	2525	OG1	THR			4.345	29.097	37.591		33.05
ATOM	2526	CG2	THR			6.724	29.332	37.399		33.47
ATOM	2527	C	THR			6.951	26.435	37.446	1.00	31.08
ATOM	2528	0			484	7.734	26.236	36.535	1.00	31.35
MOTA	2529	N	TRP			7.236	26.114	38.709	1.00	30.22
ATOM	2530	CA	TRP			8.524	25.522	39.045	1.00	29.70
ATOM	2531	CB	TRP			8.790	25.553	40.561	1.00	29.18
ATOM	2532	CG	TRP			7.959	24.692	41.509	1.00	27.14
ATOM	2533	CD1	TRP			7.017	25.121	42.412	1.00	26.11
ATOM	2534	NE1	TRP			6.560	24.061	43.166	1.00	24.96
ATOM	2535	CE2	TRP			7.232	22.931	42.769	1.00	25.24
ATOM	2536	CD2	TRP	Α	485	8.124	23.301	41.749	1.00	26.11
ATOM	2537	CE3	TRP	Α	485	8.919	22.316	41.182	1.00	27.58
ATOM	2538	CZ3	TRP			8.795	21.017	41.633	1.00	26.91
MOTA	2539	CH2	TRP	Α	485	7.909	20.688	42.629	1.00	25.80
MOTA	2540	CZ2	TRP	Α	485	7.117	21.626	43.214	1.00	26.26
ATOM	2541	C	TRP	Α	485	8.694	24.140	38.436	1.00	
MOTA	2542	0	TRP	Α	485	9.798	23.742	37.988	1.00	29.02
MOTA	2543	N	VAL	Α	486	7.586	23.417	38.383	1.00	30.94
ATOM	2544	CA	VAL	Α	486	7.576	22.121	37.725	1.00	31.44
ATOM	2545	CB	VAL	Α	486	6.182	21.451	37.861		31.81
ATOM	2546	CG1	VAL			6.033	20.217	36.978		32.30
ATOM	2547		VAL			5.942	21.067	39.345		32.19
ATOM	2548	С	VAL			8.063	22.304	36.276		31.96
MOTA	2549	0	VAL			9.041	21.685	35.877		32.23
ATOM	2550	N	LYS			7.451	23.176	35.491		33.00
ATOM	2551	CA	LYS			7.890	23.303	34.086		34.04
MOTA	2552	СВ	LYS			7.027	24.304	33.300		34.46
MOTA	2553	CG	LYS			5.631	23.786	33.026		38.44
ATOM	2554	CD	LYS			4.939	24.513	31.873		41.63
ATOM	2555	CE	LYS			3.497	24.003	31.669		43.09
ATOM	2556	NZ	LYS			2.814	24.631	30.475		44.20
ATOM	2557	C	LYS			9.366	23.693	33.992		33.65

MOTA	2558	0	LYS	Α	487		10.142	23.093	33.236	1.00	33.37
ATOM	2559	N	ARG	Α	488		9.749	24.694	34.775		33.10
ATOM	2560	CA	ARG	Α	488		11.128	25.144	34.788		33.28
ATOM	2561	CB	ARG				11.267	26.258	35.834		33.89
ATOM	2562	CG	ARG				10.494	27.509	35.478		35.69
ATOM	2563	CD	ARG				11.308	28.457	34.670		
ATOM	2564	NE	ARG				10.721	28.825			40.80
ATOM	2565	CZ	ARG						33.408		43.22
ATOM	2566						10.863	30.023	32.844		50.50
		NH1					11.557	30.980	33.463		53.22
ATOM	2567	NH2				-		30.286	31.663		49.69
ATOM	2568	C	ARG				12.105	23.980	35.035		32.57
ATOM	2569	0	ARG				13.098	23.817	34.314	1.00	31.77
MOTA	2570	N	ILE				11.800	23.135	36.020	1.00	32.44
ATOM	2571	CA	ILE				12.698	22.034	36.357	1.00	33.02
ATOM	2572	CB	ILE	Α	489		12.248	21.349	37.636	1.00	33.78
ATOM	2573	CG1	ILE	Α	489		12.598	22.231	38.828	1.00	35.97
ATOM	2574	CD1	ILE	Α	489		12.037	21.725	40.111		38.45
ATOM	2575	CG2	ILE	Α	489		12.932	19.987	37.782		35.06
MOTA	2576	С	ILE				12.813	21.019	35.233		32.38
ATOM	2577	0	ILE				13.902	20.557	34.924		32.29
ATOM	2578	N	GLN				11.700	20.649	34.624		
ATOM	2579	CA	GLN				11.782	19.736			32.67
ATOM	2580	CB	GLN				10.423		33.481		32.83
ATOM	2581	CG	GLN					19.361	32.926		33.63
ATOM	2582	CD					9.379	19.081	33.945	1.00	
		OE1	GLN				8.120	18.536	33.302		40.52
ATOM	2583		GLN				8.007	18.509	32.063		44.01
ATOM	2584	NE2	GLN				7.178	18.081	34.126		42.75
ATOM	2585	C	GLN				12.563	20.385	32.373	1.00	31.71
MOTA	2586	0	GLN				13.483	19.788	31.842	1.00	31.37
ATOM	2587	N	GLU				12.193	21.606	32.008	1.00	31.17
ATOM	2588	CA	GLU				12.952	22.297	30.977	1.00	31.55
ATOM	2589	CB	GLU	A	491		12.533	23.767	30.856	1.00	
ATOM	2590	CG	GLU	Α	491		11.145	23.977	30.273	1.00	33.66
MOTA	2591	CD	GLU	Α	491		10.616	25.404	30.380		34.14
MOTA	2592	OE1	GLU	Α	491		11.377	26.311	30.741		38.76
MOTA	2593	OE2	GLU	Α	491		9.415	25.627	30.091		35.55
ATOM	2594	С	GLU	Α	491		14.432	22.218	31.325		31.28
ATOM	2595	0	GLU				15.233	21.773	30.529		30.82
ATOM	2596	N	ASN				14.796	22.611	32.544		31.58
ATOM	2597	CA	ASN				16.211	22.681	32.895		31.49
ATOM	2598	CB	ASN				16.384	23.429	34.202		31.49
ATOM	2599	CG	ASN				16.002	24.871			
ATOM	2600	OD1	ASN				16.038		34.079		31.34
ATOM	2601		ASN					25.439	32.979		30.04
ATOM	2602						15.615	25.478	35.191		28.52
ATOM		C	ASN				16.901	21.330	32.940		31.95
	2603	0	ASN				18.035	21.180	32.475		30.72
ATOM	2604	N	LYS				16.231	20.331	33.493		33.66
ATOM	2605	CA	LYS				16.816	19.000	33.488		35.28
ATOM	2606	CB	LYS				15.854	17.979	34.057		35.84
ATOM	2607	CG	LYS				15.366	18.241	35.430		38.35
ATOM	2608	CD	LYS				14.377	17.144	35.808	1.00	41.86
ATOM	2609	CE	LYS				14.674	16.607	37.178		44.32
ATOM	2610	NZ	LYS				14.340	15.148	37.312		45.41
ATOM	2611	С	LYS				17.125	18.584	32.047		35.88
ATOM	2612	0	LYS	Α	493		18.220	18.099	31.746		35.53
ATOM	2613	N	GLN	Α	494		16.151	18.745	31.154		37.06
ATOM	2614	CA	GLN	Α	494		16.390	18.362	29.768		38.16

MOTA	2615	СВ	${\tt GLN}$	Α	494	15.144	18.409	28.880	1.00	38.83
ATOM	2616	CG	${\tt GLN}$	Α	494	14.583	16.979	28.515	1.00	41.16
MOTA	2617	CD	GLN	Α	494	15.501	16.159	27.639	1.00	43.66
MOTA	2618	OE1	GLN	A	494	15.427	14.930	27.617	1.00	46.63
ATOM	2619	NE2	GLN	Α	494	16.388	16.843	26.916	1.00	46.86
MOTA	2620	C	GLN	Α	494	17.507	19.162	29.184	1.00	38.78
MOTA	2621	0	GLN	Α	494	18.348	18.597	28.499	1.00	39.00
MOTA	2622	N	LYS	Α	495	17.538	20.467	29.437	1.00	38.91
MOTA	2623	CA	LYS	Α	495	18.646	21.247	28.914	1.00	39.26
MOTA	2624	CB	LYS	Α	495	18.519	22.728	29.310	1.00	39.41
MOTA	2625	CG	LYS	Α	495 <sub>.</sub>	17.489	23.508	28.501	1.00	40.11
MOTA	2626	CD	LYS	Α	495	18.057	24.112	27.238	1.00	40.85
MOTA	2627	CE	LYS	Α	495	16.944	24.735	26.396	1.00	42.76
MOTA	2628	NZ	LYS	Α	495	17.468	25.499	25.201	1.00	43.40
MOTA	2629	C	LYS	Α	495	19.982	20.617	29.369	1.00	39.36
MOTA	2630	0	LYS	Α	495	20.905	20.495	28.582	1.00	38.95
ATOM	2631	N	TRP	Α	496	20.085	20.151	30.609	1.00	39.99
MOTA	2632	CA	TRP	Α	496	21.383	19.637	31.085	1.00	40.38
ATOM	2633	CB	TRP	Α	496	21.362	19.393	32.590	1.00	39.75
ATOM	2634	CG	TRP	Α	496	21.552	20.636	33.374	1.00	35.46
MOTA	2635	CD1	TRP	Α	496	20.664	21.194	34.236	1.00	31.57
ATOM	2636	NE1	TRP	Α	496	21.181	22.350	34.769	1.00	29.80
MOTA	2637	CE2	TRP	Α	496	22.426	22.565	34.234	1.00	29.70
MOTA	2638	CD2	TRP	Α	496	22.685	21.504	33.340	1.00	29.59
MOTA	2639	CE3	TRP	Α	496	23.908	21.483	32.673	1.00	29.05
MOTA	2640	CZ3	TRP	Α	496	24.819	22.525	32.891	1.00	28.91
MOTA	2641	CH2	TRP	Α	496	24.516	23.568	33.769	1.00	27.79
ATOM	2642	CZ2	TRP	Α	496	23.332	23.599	34.452	1.00	
ATOM	2643	C	TRP	Α	496	21.828	18.338	30.399	1.00	42.33
ATOM	2644	0	TRP	Α	496	23.004	18.077	30.195	1.00	42.57
ATOM	2645	N	LYS	Α	497	20.881	17.516	30.033	1.00	44.17
MOTA	2646	CA	LYS	Α	497	21.229	16.246	29.405	1.00	46.23
MOTA	2647	CB	LYS	Α	497	20.023	15.326	29.407	1.00	46.30
ATOM	2648	CG	LYS	Α	497	18.822	16.040	29.928	1.00	48.76
ATOM	2649	CD	LYS	Α	497	17.520	15.300	29.726	1.00	51.25
MOTA	2650	CE	LYS	Α	497	16.522	15.633	30.868	1.00	51.82
MOTA	2651	NZ	LYS	Α	497	15.307	14.760	30.905	1.00	52.24
MOTA	2652	C	LYS	Α	497	21.736	16.447	27.989	1.00	46.84
MOTA	2653	0	LYS	Α	497	22.765	15.894	27.607	1.00	46.94
MOTA	2654	N	GLU	Α	498	21.017	17.260	27.227	1.00	47.99
ATOM	2655	CA	GLU	Α	498	21.414	17.576	25.870	1.00	48.87
ATOM	2656	CB	GLU	Α	498	20.397	18.547	25.242	1.00	48.90
ATOM	2657	CG	GLU	Α	498	18.966	18.014	25.364	1.00	48.74
MOTA	2658	CD	GLU			17.879	18.960	24.886	1.00	48.46
ATOM	2659		GLU			18.128	20.178	24.750	1.00	48.43
ATOM	2660	OE2	GLU			16.750	18.465	24.671	1.00	48.93
ATOM	2661	C	GLU	Α	498	22.832	18.136	25.963	1.00	49.87
MOTA	2662	0	GLU	Α	498	23.590	18.137	25.002	1.00	50.54
MOTA	2663	N	ARG			23.199	18.583	27.154		50.93
ATOM	2664	CA	ARG			24.537	19.070	27.392	1.00	51.74
ATOM	2665	CB	ARG			24.517	20.050	28.565		52.26
MOTA	2666	CG	ARG			25.761	20.900	28.711		53.97
ATOM	2667	CD	ARG			25.849	21.959	27.662		57.30
MOTA	2668	NE	ARG			27.046	22.790	27.760		60.45
ATOM	2669	CZ	ARG			27.325	23.776	26.902		62.62
ATOM	2670		ARG			26.488	24.042	25.904		63.27
MOTA	2671	NH2	ARG	Α	499	28.431	24.498	27.033	1.00	63.29

MOTA	2672	С			499	25	.431	17.872	27.707	7 1.00	51.87
MOTA	2673	0			499		.554	17.772	27.228	1.00	52.31
ATOM	2674	N			500		.908	16.935	28.486	1.00	52.06
ATOM	2675	CA			500		.692	15.788	28.934		52.33
ATOM	2676	CB			500		.017	15.140	30.126		52.30
ATOM	2677	C			500		.943	14.743	27.849		52.68
ATOM	2678	0			500		.566	13.711	28.097		52.53
ATOM	2679	N			501		.429	15.000	26.657		53.04
ATOM	2680	CA			501		.649	14.116	25.532		53.13
MOTA	2681	CB			501		.343	13.625	24.985		53.06
ATOM	2682	C			501		.392	14.938	24.509		53.37
MOTA	2683	0	ALA				.113	14.400	23.689		53.57
MOTA	2684	N			502		.224	16.255	24.599		53.78
ATOM	2685	CA			502		.853	17.213	23.703		54.07
ATOM ATOM	2686	CB			502		.217	16.711	23.191		54.23
	2687	OG C	SER				.186	15.344	22.813		55.20
ATOM ATOM	2688 2689	C	SER				.895	17.521	22.557		54.14
ATOM	2690	O 7N	ZN		502 503		.299	17.661	21.404		54.44
ATOM	2691	ZN					.844	31.188	49.851		25.94
ATOM	2692	MG O43	MG PFE		504 999		.040	29.863	52.708		19.44
ATOM	2693		PFE				.545	24.650	41.301		26.73
ATOM	2694		PFE				.930	24.113	42.346		26.63
ATOM	2695		PFE				.784	24.776	43.651		27.63
ATOM	2696	N23	PFE				.189	24.143	44.768		
ATOM	2697			Z			.757 .920	22.872	44.692		25.85
ATOM	2698	C30	PFE		999		.213	25.031 24.781	45.890		25.58
ATOM	2699	C33	PFE				.691	25.032	47.347		23.37
MOTA	2700	C36	PFE		999		.938	26.533	47.562		26.18
ATOM	2701		PFE				.396	26.121	47.362		26.21 26.56
ATOM	2702		PFE				.273	25.963	43.393		26.56
ATOM	2703		PFE				.450	22.904	42.359		27.04
ATOM	2704				999		.864	22.305	43.507		28.45
ATOM	2705	C5	PFE		999		.401	20.949	43.400		27.91
ATOM	2706	C3	PFE		999		.936	19.976	44.264		27.13
MOTA	2707	C6	PFE		999		.330	20.645	42.429		29.51
ATOM	2708	C7	PFE	z	999		.827	19.340	42.303		29.05
MOTA	2709	C9	PFE		999		.367	18.357	43.182		29.29
ATOM	2710	C2	PFE		999		.419	18.690	44.149		28.45
MOTA	2711		PFE	z			.744	17.388	45.335		32.55
ATOM	2712	011	PFE	Z	999		.728	21.663	41.621		31.56
MOTA	2713	C12		Z			.766	21.361	40.682		32.70
MOTA	2714	C15	PFE				.363	22.665	40.165		33.18
MOTA	2715		PFE				.293	23.275	39.287		33.12
MOTA	2716	0	нон	W	437		.530	28.322	46.656		31.57
MOTA	2717	0	НОН	W	446		.874	29.781	53.799		31.22
MOTA	2718	0	нон	W	457		.178	27.393	54.554		33.06
MOTA	2719	0	нон			26	.133	24.913	53.885		35.38
MOTA	2720	0	нон	W	519		.289	25.947	51.374		39.38
MOTA	2721	0	нон	W	514		.549	26.864	50.086		37.34
MOTA	2722	0	HOH	W	505	29	.017	24.514	52.862		39.26
MOTA	2723	0	нон	W	516		.679	21.691	46.682		43.59
MOTA	2724	0	нон	W	569	28	.150	24.604	50.379		40.39
MOTA	2725	0	нон	Y	504	24	.602	27.892	53.431		26.52
ATOM	2726	0	нон			20	.355	26.095	51.827		32.59
ATOM	2727	0	нон			30	.077	23.348	59.438	1.00	31.88
MOTA	2728	0	нон	Y	507	37	.901	31.689	58.399	1.00	32.39

MOTA	2729	0	нон ү	508	17.633	34.299	39.801	1.00	35.42
MOTA	2730	0	нон ү	509	32.479	37.864	50.769	1.00	32.25
MOTA	2731	0	нон ү		17.022	31.684	42.036	1.00	33.35
ATOM	2732	0	нон ү		4.142	40.668	64.771	1.00	37.84
ATOM	2733	0	нон ү		29.296	37.123	50.985	1.00	30.05
ATOM	2734	0	нон ү		17.626	26.126	62.085	1.00	36.78
ATOM	2735	0	нон ү		30.417	16.874	67.883	1.00	32.62
ATOM	2736	0	нон ч		9.280	24.863	64.634		39.82
ATOM	2737	0	нон ү		13.360	49.680	64.604		42.95
ATOM	2738	0	нон ч		38.210	22.021	62.047		35.38
ATOM	2739	0	нон ч		31.291	42.957	58.871		43.87
ATOM	2740	0	нон ч		12.847	41.744	35.747		34.28
ATOM ATOM	2741	0	нон ү		31.558	38.422	47.038		34.77
	2742	0	HOH Y		30.495	19.433	61.463		40.66
ATOM ATOM	2743 2744	0	HOH Y		19.284	30.005	44.089		37.22
ATOM	2744	0	НОН Ү НОН Ү		37.047	24.549	67.846		30.29
MOTA	2746	0	HOH Y		30.893	38.140	64.488		45.59
ATOM	2747	0	HOH Y		19.375	22.932	54.617		43.61
ATOM	2748	0	HOH Y		20.211	16.428	57.092		38.64
ATOM	2749	0	нон ч		38.151 36.997	29.851 17.983	53.283		43.46
ATOM	2750	0	нон ү		33.248	35.411	62.617		37.42
ATOM	2751	Ö	нон ү		23.859	29.136	62.902		44.27
ATOM	2752	ŏ	нон ү		16.010	36.570	49.563 39.320		57.62
ATOM	2753	ō	нон ү		1.634	27.065	57.871		40.21
ATOM	2754	Ö	нон ч		30.479	21.530	53.146		64.49
ATOM	2755	ō	нон ч		5.832	43.447	72.186		34.45 50.87
ATOM	2756	Ō	нон ү		35.104	41.800	57.777		46.23
ATOM	2757	Ō	нон ү		36.266	34.426	59.316		61.81
ATOM	2758	Ō	нон ү		19.819	52.604	34.757		53.00
ATOM	2759	0	нон ү		10.133	31.689	35.398		53.74
ATOM	2760	0	нон ү		38.530	35.534	47.671		65.15
ATOM	2761	0	нон ү	540	17.494	54.174	32.982		53.70
MOTA	2762	0	нон ү		31.352	27.905	47.704		35.56
ATOM	2763	0	нон ү		28.108	19.378	46.743		59.90
MOTA	2764	0	нон ү	543	28.762	41.304	46.441		37.07
ATOM	2765	0	нон ү	544	27.545	51.877	55.878		52.00
MOTA	2766	0	нон ү	545	15.807	15.921	48.963		46.73
ATOM	2767	0	нон ү	546	33.709	26.954	46.923		42.22
MOTA	2768	0	HOH Y	547	17.116	11.664	42.824		53.12
ATOM	2769	0	нон ү		24.596	51.409	49.795	1.00	50.67
ATOM	2770	0	нон ү	549	15.391	36.894	41.932	1.00	34.95
MOTA	2771	0	нон ү		13.782	33.190	35.252	1.00	54.16
ATOM	2772	0	нон ү		3.627	51.177	55.677	1.00	67.45
ATOM	2773	0	нон ү		20.997	32.378	43.439	1.00	30.91
MOTA	2774	0	нон ү		0.162	28.357	58.750	1.00	57.59
ATOM	2775	0	нон ү		28.916	43.833	47.130	1.00	39.19
ATOM	2776	0	нон у		16.067	35.636	70.768		39.01
ATOM	2777	0	нон у		12.210	23.514	58.256		43.55
ATOM	2778	0	HOH Y		36.932	35.252	64.715		45.86
ATOM	2779	0	HOH Y		27.898	14.907	42.429		40.01
ATOM ATOM	2780	0	HOH Y		8.525	43.858	75.159		47.55
ATOM	2781 2782	0	HOH Y		38.994	30.915	55.773		58.55
ATOM	2782	0	НОН Ү		26.250	11.545	30.739		58.03
ATOM	2784	0	HOH Y		22.313	51.989	51.150		52.01
ATOM	2785	0			10.415	12.363	60.171		58.81
.11011	2100	0	нон у	204	6.756	51.369	55.428	1.00	44.75

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MOTA	2786	0	нон ч	565	8.068	51.489	43.583	1.00	84.72
MOTA	2787	0	нон ү	566	25.907	18.339	70.474	1.00	46.88
MOTA	2788	0	нон ү	567	2.610	42.354	53.314	1.00	56.80
ATOM	2789	0	нон ү	568	31.475	18.529	65.677	1.00	46.88
MOTA	2790	0	нон ү	569	18.751	39.638	72.398	1.00	46.35
MOTA	2791	0	нон ү	570	23.799	24.285	63.431	1.00	50.64
MOTA	2792	0	нон ч	571	41.474	30.967	58.845	1.00	46.67
ATOM	2793	0	нон ч	572	12.758	14.364	41.552	1.00	58.93
ATOM	2794	0	нон ү	573	32.793	21.189	46.442	1.00	67.03
ATOM	2795	0	нон ү	574	31.142	40.777	45.034	1.00	40.17
MOTA	2796	0	нон ү	575	30.428	42.533	61.799	1.00	39.30
MOTA	2797	0	нон ү	576	25.249	25.866	65.282	1.00	44.23
MOTA	2798	0	нон ч	577	31.184	44.905	62.938	1.00	45.37
MOTA	2799	0	нон ч	578	12.415	29.278	61.215	1.00	42.40
MOTA	2800	0	нон ч	579	27.428	21.985	59.250	1.00	51.88
MOTA	2801	0	нон ү		34.042	18.125	64.961	1.00	42.84
ATOM	2802	0	нон Ү	581	35.177	35.671	66.106	1.00	47.67
ATOM	2803	0	нон ү	582	20.744	40.046	71.340	1.00	43.61
MOTA	2804	0	нон ү		14.548	14.111	50.051	1.00	60.92
MOTA	2805	0	нон Ү	584	15.386	13.072	47.639	1.00	54.89
MOTA	2806	0	нон ч		13.009	15.852	39.301	1.00	57.80
MOTA	2807	0	нон ү		-4.014	28.291	42.390	1.00	69.02
MOTA	2808	0	нон ү		40.931	28.162	55.474	1.00	48.27
MOTA	2809	0	нон ү		26.237	28.910	50.938	1.00	35.19
MOTA	2810	0	нон ү	589	4.851	23.056	66.279	1.00	51.23
MOTA	2811	0	нон ү		32.395	35.468	64.658	1.00	49.53
MOTA	2812	0	нон ү		15.979	46.595	69.660	1.00	73.27
MOTA	2813	0	нон ү		28.128	22.004	56.257	1.00	66.05
MOTA	2814	0	нон ү		13.425	27.385	67.817	1.00	39.97
MOTA	2815	0	нон ү		28.816	26.690	49.362	1.00	51.46
MOTA	2816	0	нон ч	595	8.056	32.798	66.114	1.00	49.75
END									